Public Works (1902) Department.

~~8 10 31 B~~

G.O., No. 681/682 } I.

DATED 16th June 1902.

[Despatch Abstract.]

Tanks in the Kurnathur tank group, Periyar Project.

The estimates, amounting to Rs 26,670, for improvements to certain —— sanctioned, and a copy of the Pro: ordered to be forwarded to the G. of I. for information.

Tanks in the Kurnathur tank group, Periyar Project.

Forwarding a copy of the Pro: sanctioning the estimates, amounting to Rs 26,670, for improvements to certain.

D/7-8-2 [illegible]

INDEXED

677

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

IRRIGATION.
ACCOUNT.

Government {1902} of Madras.

PUBLIC WORKS.

Recd. } 1902. *Enclosures*

Regd. *Spare copies*

G.O., Nos. 681, 682 I., 16th June 1902.

JUNE.

Tanks in the Kunnathur tank group, Periyar project

Forwarding a copy of the Proceedings sanctioning the estimates, amounting to Rs. 26,670, for improvements to certain —.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers :—

From the Superintending Engineer, VI Circle, dated 21st April 1902, No. 576/M.D.

Enclosures.

Report to accompany the estimate for repairs and improvements to No. 204, Alattur tank.

	RS.
Amount of estimate—	
Repairs	920
Improvements	1,420
Total ...	2,340

Source of supply.—The tank receives, in addition to the supply from its catchment area, supply from the left distributary from drop No. 14 in the 9th branch channel.

Surplus arrangements.—The surplus at present flows through open cuts in the bunds. There is a paved byewash 289 feet long at right flank, which is very rarely used as the bund is very weak. The byewash is constructed on made earth and the soil is very poor. It is, therefore, proposed to construct a vented weir 97 feet long at the right flank as per accompanying plan. There is no suitable site at the left flank.

Sluices.—The ayacut under the tank is now irrigated by pot sluices in the bund. These will be replaced by cement pipe. Means of irrigation for the waste lands (65 acres) lying at the other side of the surplus odai may be considered later on. The lands are saline and attracted no bidders in the auction sale held during 1898 and are in my opinion unsuitable for irrigation purposes.

Tank-bund.—It is proposed to raise the F.T.L. of the tank by 2 feet, the reason for so doing is explained separately. The bund is very low and weak, and it is now proposed to raise the same to 3 feet above M.W.L. with a top width of 4 feet and side slopes of $1\frac{1}{2}$ to 1 throughout.

The work will be carried out according to the current departmental standard specifications.

Estimate Form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual works.	Total of sub-heads.	Total for each canal or distributary.	Total of each main head.
1	2	3	4	5	6
		RS.	RS.	RS.	RS.
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.				
	49. Irrigation.				
	Periyár Project.				
	Open Capital Account.				
	I. Works.				
	3. Distributaries.				
	9th Branch Channel.				
	Unremunerative Works.				
	Improvements to No. 204, Alattúr Tank.				
B. Land ..	1. Compensation for land	375	375		
C. Works or masonry works.	2. Cement pipe sluice at C.S. No. 7	215			
	3. ,, ,, ,, No. 12	155			
	4. Vented weir at right flank	660	1,030		
O. Miscellaneous.	5. Demarcation stone	15	15		
	Total, I. Works	..	..	1,420	
	II. Establishment ..	..	..	240	
	Grand Total ..	..	..	1,660	

Report to accompany the estimate for repairs and improvements to No. 211, Vilattur tank.

	RS.
Amount of estimate—	
Repairs	1,345
Improvements	1,620
Total ...	2,965

Source of supply.—The tank, in addition to the drainage from its own free basin, receives one-third of the surplus from No. 204, Alattúr tank. It also receives supply from the tail end of Kunnathur offtake, 9th branch channel.

Surplus arrangements.—The surplus at present flows through open cuts at both flanks. It is now proposed to construct two masonry weirs, one 65 feet long and the other 56 feet long, the former at the left flank, the latter at the right flank, as per accompanying plans. The one proposed at the left flank is only necessary to send the mamool surplus supply to the inam tanks lower down.

Sluices.—Irrigation under the tank is conducted by two masonry sluices and by open cuts in the bund. The masonry sluices are in good order except that they require some petty repairs. Two cement pipe sluices will be constructed, one at C.S. No. 4 and the other at C.S. No. 16 as per plans herewith enclosed.

Tank bund.—The bund is low and weak throughout and appears to have been long neglected. It is now proposed to raise the bund to 3 feet above M.W.L. with a top width of 4 feet and side slopes 1½ to 1.

Supply channel.—A portion of the surplus of the upper tanks entered this tank originally through the supply channel. The supply channel is so silted up that it is beyond the means of the ryots to put it into good order. It is proposed to restore this channel with a bed fall of 1 in 500 and a bottom width of 22 feet, and full supply level of 4 feet from C.S. No. 11 to C.S. No. 13 and of 3 feet from C.S. No. 2 to C.S. No. 11.

The channel is designed to carry one-third of the surplus from Alattúr tank, *i.e.*, 619 cusecs. Provision is made in the estimate for the extra earthwork required for banking which will be 3 feet above F.S.L.

The work will be carried out according to the current departmental standard specifications.

Estimate Form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual works.	Total of sub-heads.	Total for each canal or distributary.	Total of each main head.
1	2	3	4	5	6
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.	RS.	RS.	RS.	RS.
	49. IRRIGATION.				
	Periyar Project				
	Open Capital Accounts.				
	I. Works.				
	3. Distributaries.				
	Kunnathur Offtake.				
	9th Branch Channel.				
	Unremunerative Works.				
	Improvements to Vilattur Tank.				
C. Works or Masonry works.	1. Masonry weir at left flank	330			
	2. Cement pipe sluice at C.S. No. 4	81			
	3 ,, ,, at C.S. No. 16	140			
	4. Masonry weir at right flank	529			
	5. Dry stone revetment	540			
			1,620		
	Tolal, I. Works	..	..	1,620	
	II. Establishment ..	..	..	373	
	Grand Total ..	..	..	1,993	

REPORT to accompany the Estimate for repairs and improvements to No. 197, Varichiyur tank.

	RS.
Amount of estimate—	
Repairs	2,360
Improvements	6,310
Total ...	8,670

General.—This tank, in addition to the drainage from its own catchment area, received supply from a masonry sluice above drop No. 11, Kunnathur offtake, 9th branch channel.

Surplus Arrangements.—The surplus now flows over hard natural ground at the left flank and over the existing calingulah at the right flank. As the surplus arrangements are defective, the tank often breaches. It is therefore proposed to extend the calingulah (at right flank) 75 feet long by 75½ feet and convert it into a weir, and construct a combined weir and byewash, 180 feet long, as per accompanying plans (at the left flank).

Sluices.—The ayacut under the tank is now irrigated by open cuts and country pot sluices The tank has three masonry sluices, which are all in a ruined state. It is now proposed to construct masonry and cement pipe sluices as per accompanying plans.

The bund is very low and weak and appears to have been long neglected. It is now proposed to raise the same to 3 feet above M.W.L., with a top width of 5 feet and side slopes of 1½ to 1. The work will be carried out according to the Current Departmental standard specifications.

Estimate Form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual works.	Total of sub-heads.	Total for each canal or distributary.	Total of each main head.
1	2	3	4	5	6
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.	RS.	RS.	RS.	RS.
	49. IRRIGATION.				
	Periyár Project.				
	Open Capital Account.				
	I. Works.				
	3. Distributaries.				
	Kunnathur and Chunambur off-takes,				
	9th Branch Channel.				
	Improvements to No. 197, Varichiyur tank.				
C. works or masonry works.	1. Masonry and natural escape at left flank	270			
	2. Cement pipe sluice at C.S. No. 5	100			
	3. ,, ,, at C.S. No. 9	316			
	4. Masonry sluice at C.S. No. 19	390			
	5. Cement pipe sluice at C.S. No. 24	327			
	6. ,, ,, at C.S. No. 34	282			
	7 Extending and improving the existing calingulah ..	2,475			
	8. Revetment to bund	2,150			
			6,310		
	Total, I. Works	..	..	6,310	
	II. Establishment ..	..	..	1,451	
	Grand Total ..	..	..	7,761	

REPORT to accompany the estimate for repairs and improvements to No. 192, Achangulam tank.

Amount of estimate—	RS.
Repairs	1,000
Improvements	7,140
Total ...	8,140

Source of supply.—The tank receives, in addition to the drainage from its own catchment, Periyár supply through a masonry sluice above Drop No. 10 in Kunnathur off-take and surpluses into Rajakkur tank.

Surplus arrangements.—The surplus at present flows over the laterite surface at the left flank, where the ground is uneven and below the proposed F.T.L. It is now proposed to construct a masonry wall 140 feet long as per accompanying plan to enable the ryots to store water to F.T.L.

Sluices.—There are two masonry sluices for this tank and both of them are in good order except that they require some petty repairs for which provision is now made. Two cement pipe sluices are proposed—one at C.S. No. 20 and the other at C.S. No. 25 for the irrigation of the waste lands, &c., at the right flank.

Tank bund.—It is proposed to raise the F.T.L. of this tank by 2 feet; this is explained elsewhere. The bund is low and very weak throughout, as no repairs to the tank have been carried out for a long time past and it is now proposed to raise the same to 4 feet, above M.W.L. at the centre and 3 feet above M.W.L. at the flanks with top widths of 5 feet and 4 feet, respectively, and side slopes of $1\frac{1}{2}$ to 1 and 2 to 1 in front and rear, respectively, as the soil is sandy. Provision is also made in the estimate for revetting the front slope in two places as shown in longitudinal section as they are much exposed to wave action. The estimate also provides for aloe fencing in double rows along the outer toe of bank for 600 feet to prevent the cattle straying on the slopes and to keep the rear slopes being washed down during heavy rain.

The work will be carried out according to the current departmental standard specifications.

Estimate form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual works.	Total of sub-heads.	Total for each canal or distributary.	Total of each main head.
1	2	3	4	5	6
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.	RS.	RS	RS.	RS.
	49. IRRIGATION.				
	Periyár Project.				
	Open capital accounts.				
	I. Works.				
	3. Distributaries.				
	Kunnathur off-take.				
	9th Branch Channel.				
	Unremunerative Works.				
	Improvements to No. 192 Achangulam tank.				
B. Land ..	1. Compensation for land	5,824	5,824		
C. Works or masonry works.	2. Cement pipe sluice at C. S. No 20	275			
	3. ,, ,, at C.S. No. 25	135			
	4. Masonry weir and natural escape	240			
	5. Improvements to tank bund	650	1,300		
O. Miscellaneous.	6. Demarcation stones	16	16		
	Total, I. Works	..	..	7,140	
	II. Establishment ..	..	..	303	
	Grand Total ..	..	..	7,443	

REPORT to accompany the estimate for repairs and improvements to No. 231, Varaghaneri and No. 230, Semmalipuliyankulam tanks.

	RS.
Amount of Estimate—	
Repairs	730
Improvements	1,220
Total ...	1,950

Source of supply.—These tanks receive, in addition to the drainage from its own catchment basin, supply from the distributary from the left sluice of Drop No. 8 Kunnathur off-take, 9th branch channel.

Surplus arrangements.—The surplus at present flows through open cuts at the flanks, and as the surplus arrangements are inadequate, the tank often breaches. It is now proposed to construct a vented weir 46 feet long as per accompanying plan to discharge the surplus.

Sluices.—The ayacut under the tanks is now irrigated by temporary pot sluices in the bund. Provision is made in the estimate for the construction of cement pipe sluices as per accompanying plans. The existing masonry sluice in Varaghaneri tank is out of order and is not worth repairing, and a new sluice will therefore be built in its place.

Tank bund.—The bund is low and very weak. It is now proposed to raise the same to 3 feet above M.W.L. with a top width of 4 feet, side slopes of $1\frac{1}{2}$ to 1 throughout, and the required earth will be taken from the bed of the tank. The work will be carried out according to the current departmental standard specifications.

Estimate Form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual works.	Total of sub-heads.	Total for each canal or distributary.	Total of each main head.
1	2	3	4	5	6
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.	RS.	RS.	RS.	RS.
	49. Irrigation.				
	Periyár Project.				
	Open Capital Account.				
	I. Works.				
	3. Distributaries.				
	Chittampatti offtake.				
	9th Branch Channel.				
	Unremunerative Works.				
	Improvements to No. 231, Varaghaneri, and No. 230, Semmalipuliyankulam.				
C. Works or Masonry works.	1. Cement pipe, sluice at C.S. No. 3	110			
	2. ,, ,, at C.S. No. 7	260			
	3. ,, ,, at C.S. No. 11	260			
	4. ,, ,, at C.S. No. 15	280			
	5 Vented weir at right flank	310			
			1,220		
	Total, I. Works	..	..	1.220	
	II. Establishment ..	..	..	281	
	Grand Total ..	..	..	1,501	

Report to accompany the Estimate for repairs and improvements to No. 199, Thalathamarai tank.

Amount of estimate—	RS.
Repairs	810
Improvements	3,380
Total ...	4,190

Source of Supply.—The tank receives, in addition to the drainage from its own catchment area, supply through the distributary channel at 1 mile 6 furlongs, Kunnathur offtake, 9th branch channel.

Surplus Arrangements.—The surplus now flows over hard ground at the left flank and the length available is enough to discharge the surplus quantity ; but as the surplus channel in rear is contracted and as the bed-fall is not enough, the surplus does not run off properly and the tank often breaches. The ground level for a length of 50 feet is below the F.T.L., and it is therefore proposed to construct a weir with an apron in rear, while the remaining length of escape will be paved with rough stone where laterite is not met with.

Provision is made in the estimate for deepening and widening the surplus channel to give a good run-off in rear. The soil along the surplus channel being hard gravel, laterite and soft rock, an average rate of Rs. 6 per unit is provided in the estimate, as it is difficult to classify the nature of the soil.

Sluices.—This tank has now an ayacut of 192·61 acres including a block of 40 acres of high level waste lands on the west side of the surplus channel, which can be irrigated only when the tank is full. These 40 acres therefore require supply direct from Periyár channels and must be so irrigated.

The tank has two masonry sluices, of which the first from the left flank is in very bad order and is not worth repairing. It is now proposed to construct a cement pipe-sluice at 325 feet in longitudinal section, as per accompanying plan and estimate, to command the ayacut under the ruined sluice. The other masonry sluice, though in good order, requires some petty repairs, for which a lump sum provision is accordingly made in the estimate. The high level fields at the right flank are now irrigated by a temporary pot-sluice in the bund. Provision is made in the estimate for a cement pipe-sluice at this place.

Tank bund.—The bund is very weak in some places, where it is much exposed to wave action. Provision is made in the estimate for a rough-stone revetment along this weak portion. The bund will be made 4 feet wide at top with side slopes of 1½ to 1 and 3 feet above M.W.L.

The work will be carried out according to the current departmental standard specifications.

Estimate Form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual works.	Total of sub-heads.	Total for each canal or distributary.	Total of each main head.
1	2	3	4	5	6
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.	RS.	RS.	RS.	RS.
	49. IRRIGATION.				
	Periyár Project.				
	Open Capital Account.				
	I. Works.				
	3. Distributaries.				
	Kunnathur Off-take.				
	9th Branch Channel.				
	Unremunerative Works.				
	Improvements to No. 199, Thalathamarai tank.				
B. Land ..	1. Compensation for land	159	159		
C. Works or masonry works.	2. Cement pipe sluice at 325 feet	86			
	3. ,, ,, at 1,050 feet	268			
	4. ,, ,, at C. S. No. 15	94			
	5. Weir and byewash combined	198	646		
L. Earthwork ..	6. Excavating surplus channel	2,565	2,565		
O. Miscellaneous.	7. Demarcation stone	10	10		
	Total, I. Works	..	..	3,380	
	II. Establishment ..	..	..	741	
	Grand Total ..	..	..	4,121	

REPORT to accompany the estimate for repairs and improvements to No. 208, Kolikudi and No. 212, Pottappanaiyur tanks.

	RS.
Amount of estimate—	
Repairs	1,720
Improvements	1,650
Total ...	3,370

General.—Pottappanaiyur and Kolikudi tanks are two separate ones and it is now proposed to form the two into one big tank for the following reasons :—

i. The two tanks are situate quite close to each other, so that the bunds are almost contiguous.
ii. The full tank level of Pottappanaiyur tank is only 6 inches below that of the other tank.
iii. Surplus of all the upper tanks enter into both the tanks, but the surplus entering each cannot be well defined unless some costly arrangements are made.
iv. The cost of maintaining the combined tank will be less than that of maintaining the tanks separately.

Source of supply.—These tanks are chiefly dependent for their supply on their catchment areas, but receive additional supply from the tail end of Kunnathur and Pappagudy off-takes.

Surplus arrangement.—The surplus now flows over hard laterite ground at the right flank of Kolikudi tank and through the ruined calingulah at left flank of Pottappanaiyur tank. It would appear from the longitudinal section that the bund of Pottappanaiyur tank often breaches for want of adequate surplus arrangements. It is, therefore, proposed to build two pucka masonry weirs one at each flank as per accompanying plans. The site and run-off channels are such that no less costly design can be prepared. The ruined calingulah at left flank of Pottappanaiyur tank cannot be repaired efficiently.

One masonry weir on left flank and a combined masonry work and byewash at right flank.

Sluices.—There are three masonry sluices in Kolikudi tank and one in Pottappanaiyur tank. These sluices, though in good order, require slight repairs for which a lump sum provision is made in the estimate. The sluices in Kolikudi tank and are sufficient for the ayacut under it. The fields under Pottappanaiyur tank are now irrigated by one masonry sluice (which is in good order) and two pot sluices. Provision is now made for the construction of a masonry sluice and two cement pipe sluices as per accompanying plans. The two sluices on the left flank are chiefly intended for the irrigation of the waste lands under the tank.

Tank bund.—The bund is low and very weak throughout and it is now proposed to raise the same to 3 feet above M.W.L. with a top width of 5 feet and side slopes of $1\frac{1}{2}$ to 1.

Submergence of patta lands.—About 9·08 acres of patta wet lands are subjected to submergence from the waterspread of Kolikudi tank and petitions are received year after year from the ryots complaining of loss of crops. A statement of lands so submerged accompany the report, so that waste lands might be given in exchange. No patta lands are submerged by raising the F.T.L. of Pottappanaiyur tank by 6 inches.

The work will be carried out according to the current departmental standard specifications.

Estimate form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual works.	Total of sub-heads.	Total for each canal or distributary.	Total of each main head.
1	2	3	4	5	6
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.	RS.	RS.	RS.	
	49. Irrigation.				
	Periyár Project.				
	Open Capital Account.				
	I. Works.				
	3. Distributaries.				
	9th Branch Channel.				
	Unremunerative works.				
	Improvements to Nos. 208 and 212, Kolikudi and Pottappanaiyur tanks.				
C. Works or masonry works.	1. Cement pipe sluice at C.S. No. 2	127			
	2. Masonry weir at left flank	745			
	3. ,, sluice at C.S. No. 7	240			
	4. Cement pipe sluice at C.S. No. 14	155			
	5. Weir and byewash combined	363	1,630		
O. Miscellaneous.	6. Demarcation stones	20	20		
	Total ..	..	..	1,650	
	II. Establishment ..	..	..	380	
	Grand Total ..	..	..	2,030	

Report to accompany the estimate for repairs and improvements to No. 174, Mochivatty and No. 175, Periyakadambangudi tanks.

Amount of estimate—	RS.
Repairs	470
Improvements	3,930
Total ...	4,400

General.—The tank receives the surplus of No. 162, Pidari, endal tank (which is one of the tanks to be maintained as per G.O., No. 710 I., dated 19th August 1896, and which I now propose to abandon) and is also supplied from the right sluice of drop No. 1, Kunnathur offtake.

Surplus arrangements.—The surplus at present flows through open cuts at the left flank of Mochivatty tank and at the right flank of Periyakadambangudi tank, the two tanks being more or less one. The surplus flows to No. 199, Thalathamarai tank through a circuitous course and it is now proposed to construct a vented escape at right flank of Periyakadambangudi tank to discharge the total surplus, *viâ* the upper side of Nelli endal to Thalathamarai tank.

Sluices.—Irrigation is at present conducted by open cuts and pot sluices which will be replaced by cement pipe sluices.

Tank bund.—The F.T.L. is raised by $1\frac{1}{4}$ feet and the reason for so doing is explained separately. The bund will be made 4 feet wide with side slopes of $1\frac{1}{2}$ to 1 and will be 3 feet above M.W.L.

The work will be carried out according to the current departmental standard specifications.

Estimate Form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual works.	Total of sub-heads.	Total for each canal or distributary.	Total of each main-head.
1	2	3	4	5	6
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.	RS.	RS.	RS.	
	49. Irrigation.				
	Periyár Project.				
	Open Capital Account.				
	I. Works.				
	3. Distributaries.				
	Kunnathur offtake.				
	9th Branch channel.				
	Unremunerative works.				
	Improvements to No. 174, Mochivatty and No. 175, Periyakadambangudi tanks.				
B. Land ..	1. Compensation for wet land	2,985	2,985		
C. Works or masonry works.	2. Cement pipe sluice at C. S. No. 2	215			
	3. ,, at C. S. No. 8	215			
	4. Vented weir at right flank	500	930		
O. Miscellaneous.	5. Demarcation stone	15	15		
	Total, I. Works	..	..	3,930	
	II. Establishment ..	..	..	217	
	Grand Total ..	..	..	4,147	

1st September 1900.

(Signed) H. T. KEELING,
Ex. Engineer, Madura Divn.

No. 148 I.

Note by the Chief Engineer for Irrigation.

The Superintending Engineer, VI Circle, submits estimates amounting to Rs. 26,640 for improvements to the marginally-noted eight tanks in the Kunnathur tank group under the influence of the Periyár project. The improvements proposed are—

	*RS.
No. 204, Alattur tank	1,420
„ 211, Villattur tank	1,620
„ 197, Varichiyur tank	6,310
„ 192, Achangulam tank	7,140
Nos. 230 and 231, Varaghaneri and Semmalipuliyankulam tanks ...	1,220
No. 199, Thalathamarai tank ...	3,350
Nos. 208 and 212, Kolikkudi and Pottappanaiyur tanks	1,650
Nos. 174 and 175, Periyakadambankudi and Mochivatti tanks	3,930

* For works only.

(1) providing the tanks with adequate surplus works;

(2) constructing masonry and cement pipe sluices in lieu of the existing pot sluices and open cuts; and

(3) cutting and widening the supply channels of some of them.

2. The Superintending Engineer proposes to abandon No. 162 Pidari endel, No. 182, Nelli endel, and No. 195, Parayankulam tanks, and to increase the capacities of those marginally noted by raising their full tank level. It is stated that this arrangement involves no loss of storage.

Nos. 174 and 175, Periyakadambankudi and Mochivalli tanks.
No. 192, Achankulam tank.
„ 204, Alattur tank.

3. The Collector has approved the Superintending Engineer's proposals. The estimates as increased in this office to Rs. 26,670 * owing to errors found in the calculations may be sanctioned.

* Or Rs. 30,656 including establishment.

4. The works are classed as "unremunerative," as they are not directly remunerative in themselves, but being required for the full development of the Periyár project may be charged to the Open Capital Account thereof. They will probably be completed by the 31st March 1903.

(Signed) A. W. SMART, Col., R.E.,
Ag. Chief Engineer for Irrigation.

27th May 1902.

ORDER—No. 681 I., dated 16th June 1902.

The estimates for the works enumerated in paragraph 1 of the note by the Chief Engineer for Irrigation are sanctioned.

2. This sanction is registered as Nos. 62 I. to 69 I. of 1902–1903 and will expire on the 31st March 1903.

3. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

[Here enter No. 682 I., dated 16th June 1902.]

(True Extract.)

A. W. SMART, Col., R.E.,
Ag. Joint Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
„ Superintending Engineer, VI Circle, with plans and estimates.
„ Examiner, Public Works Accounts.

ENDORSEMENT—No. 682 I., dated 16th June 1902.

Forwarded.

(By order.)

(Signed) A. W. SMART, Col., R.E.,
Ag. Joint Secretary to Government,
Irrigation Branch.

3,600—21-1-01.

Public Works (1902) Department.

CURRENT No. ~~74 M.D~~ PWE. 5735/2

From

[Name] Col. A. V. Boady R.E.

[Designation] Supg Engineer, [illegible] Circle

[Station] Trichinopoly

No. 576 M.D.

Dated 21 April 1902.

Received } 26 4 1902.

Registered } 1902.

Enclosures { Plans 76, Others 10 } Total 86 *

* 84 Encl. sent separately

Spare copies

SUBJECT.

Certain tanks in Kunnathur Group – Submitting for sanction plans and estimates for improving

D.E.I.

The proposals have been approved by the Collr. For orders if the estimates may be checked for sanction

LR 28/4/02

E.I. for orders. Plans have not been sent up from Madras, but E.I. will be able to judge of the proposals without.

May be checked

ADM 30/4/02

BACK PAPERS.

C.E.I. to check estz

[illegible] 17/5/02

D.E.I.

FURTHER PAPERS.

Plans recd. from office E.I.'s [illegible]

LR 21/4/02

CHIEF ENGINEER
FOR IRRIGATION.
24 APR.1902
No.

To

The ~~Secretary to Government~~ Chief Engineer Public Works Department.

for Irrigation

Sir,

Enclosure:—
86. Vide List attached

I have the honor to forward for sanction under 49 Open Capital account, estimates for improving 86 tanks in the Kunnathur Group, which are tabulated in the accompanying list. The estimates are accompanied by plans and full reports showing what is proposed to be done.

Kaz. C.

In G.o. No: ~~700 I~~ 710 I dated 19th August 1896 approval was given to the retention and abandonment of some of the tanks now dealt with. In the present scheme it is proposed to abandon the following tanks:—

No. 162. Pidari Eudal, 182. Irelli Eudal and 195 Parayankulam and to increase the capacity of

the following tanks:—

Nos: 175-174. Mochivaiki and Periyakadambangudi tanks. These 2 tanks are practically one, and it is proposed to raise the F.T.L. by 1.25 feet.

No: 192. Achankulam. F.T.L. to be raised by 2 feet.

No: 204. Alathur Tank. F.T.L. to be raised by 2 feet

I enclose a statement No: 1 which shows the capacities of the tanks to be maintained as now calculated from the actual waterspread of each tank. The increased storages for Tanks, 174-175, 192 and 204, are included. The total capacity of the tanks as given in G.o. No: 710 I dated 19 August 1896 is 305 M.c.ft and as now calculated is 319 M.c.ft. The capacity of the 3 tanks Nos: 162, 182 & 195 which it is now proposed to abandon is 13 Mn C.ft. so that there is a difference of 1 M.c.ft. in favor of the present proposal, or it involves no loss of storage.

The cost of repairing and improving the three tanks now proposed to be abandoned would be about Rs 6000.

The cost of increasing the capacities of the Tanks Nos: 174, 175, 192 and 204 is Rs 5680, and compensation for land to be submerged is Rs 9,200 – a total of Rs 14,880. The difference in cost therefore is Rs 8900. Against this must be set off 160 acres of tank bed to be sold. Judging from recent sales Rs 250 per acre may perhaps be realized, but assuming that Rs 100 per acre is only obtained, the financial advantage of the present proposal is Rs 7,100.

CHIEF ENGINEER FOR IRRIGATION. 2? APR 1902 No.

The Executive Engineer, Madura Dt, informs me that he has personally explained the question to the Collector, and that the Collector approves of the proposals.

I have the honor to be
Sir,
Your most obedt. Servant
?. V. Rowley(?) Col. R.E.
Supg Engineer, IV Circle

Enclosures. 86.

1. Estimate of Rs 1420 for improvements to No 204 Alathur tank. — Nathan

5 5. Sheets of plans in one bundle.

1 Estimate of Rs 1620 for improvements to No 211 Velathur tank.

13 13. Sheets of plans in one bundle.

1. Estimate of Rs 6310 for improvements to No 197 Varichiyur tank. — P. D. Naidu

15 15 Sheets of plans in one bundle.

1. Estimate of Rs 7140 for improvements to No 192 Achangulam tank.

7 7. Sheets of plans in one bundle.

1 Estimate of Rs 1220 for improvements to No 231 Varahaneri and 230 Semmalipuliankulam Tanks

9 9. Sheets of plans in one bundle.

1 Estimate of Rs 3350 for improvements to No 199 Thalathamarai tank. — N. R.

10 10. Sheets of plans in one bundle.

1. Estimate of Rs 1650 for improvements to Nos 208 & 212 Kolikudy & Pottapaniyur tanks

12 12. Sheets of plans in one bundle.

1. Estimate of Rs 3930 for improvements to No 171 Mochivatty & No 175 Periakadambanguody tanks.

5 5. Sheets of plans in one bundle.

1. List of capacity of tanks.

76 1. List of Estimate under 49 Open Capital account. Kunnathur tank group.

86

84 Enclosures and Pcd. Part sent

2 Sp

SUPG. ENGINEER'S OFFICE,
No. 1233
20 SEP. 1900
P. W. D.
SIXTH CIRCLE.

Encls: 6
1 - Sketch plan
1 - L. Sections
2 - plans of pipe sluices
1 - Plan of weir
1 Estimate -

Report to accompany the estimate for repairs and improvements to No 204 Mattur Tank.

Amount of estimate Repairs Rs ~~950~~ 920

Amount of estimate Improvements Rs ~~1030~~ ~~1415~~ 1420 (1405)

Total amount of estimate Rs ~~1980~~ 2340

Source of supply: The tank receives, in addition to the supply from its catchment area, supply from the left Distributary from Drop No 14 in the 9th Branch channel.

Surplus arrangements. The surplus at present flows through open cuts in the bunds. There is a paved byewash 289 feet long at right flank, which is very rarely used as the bund is very weak. The byewash is constructed on made earth, and the soil is very poor. It is therefore proposed to construct a

Pro 563
5735/2

a vented weir 97 feet long at the right flank as per accompanying plan. There is no suitable site at the left flank.

Sluices.

The ayacut under the tank is now irrigated by pot sluices in the bund. These will be replaced by cement pipe.

Means of irrigation for the waste lands of (65 acres) lying at the other side of the surplus odai may be considered later on. The lands are saline and attracted no bidders in the auction sale held during 1898 and are in my opinion unsuitable for irrigation purposes.

Tank Bund.

It is proposed to raise the F.T.L of the tank by 2 feet, the reason for so doing is explained separately. The bund is very low, and weak and it is now proposed to

raise

3 3P

raise the same to 3 feet above M.W.L. with a top width of 4 feet and side slopes of 1½ to 1 throughout.

The work will be carried out according to the current depart-mental standard specification.

H. T. Kirby
1.9.00
Executive Engineer
Madura Dn

[initials]
31/8/00.

ESTIMATE FORM.—Abstract—Classified.

Sub-head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	Remarks.
1	2	3	4	5	6	7
	Capital expenditure not charged to revenue					4 Br
	49 Irrigation					
	Periyar Project					
	Open capital account					
	1. Works					
	3. Distributaries					
	9" Branch cht.					
	Unremunerative works					
	Improvements to No. 204 Aladhur Tank.					
B. Land	Compensation for land	375				
			375			
C. Works or Masonry works	2. Cement pipe sluice at C.S. No. 7	215				
	3. Do-do-at C.S. No. 12	155				
	4. Vented weir at right flank	660				
			1030			
O. Miscellaneous	5. Demarkation stone	15				
			15			
	Total I Works ~~Rupees~~			1420		
	II Establishment			240		
				1660		

Sanctioned in G.O. No. 684 M, 16-6-02

1420
375
1045
23
3135
2090
240|35

STATION,
Dated 190
Executive Engineer.

5,000—12-12-01.

PWE 70
5735/2

(E. No. 126.)

——————— CIRCLE.

DIVISION—

DISTRICT—

ESTIMATE FORM.—Abstract—Classified.

To accompany the Detailed Estimate No.
of 190 -190 for *

* Here enter the Name and Description of work in full.

5 Sp

Report to accompany the estimate for repairs, and improvements to No. 211 Vilattur Tank.

SUPG. ENGINEER'S OFFICE,
No. ....
20 SEP. 1900
P. W. D.
SIXTH CIRCLE.

Amount of estimate. Repairs Rs. 1345

Amount of estimate Improvements Rs 1085 ~~1080~~ 1620

Total amount of estimate Rs. 2430. ~~2425~~ 2965

Encls: Nil as detailed below.

Source of supply.

The tank, in addition to the drainage from its own free basin, receives 1/3 of the surplus from No. 204 Alattur Tank. It also receives supply from the tail end of Kumathur offtake 9th Branch channel.

Surplus arrangements.

The surplus ~~is~~ at present flows through open cuts at both flanks. It is now proposed to construct 2 masonry weirs one 65 feet long and the other 56 feet long, the former at the left flank, the latter at the right flank as per accompanying

PW 585 / 5737

plans. The one proposed at the left flank is only necessary to send the mamool surplus supply to the Inam tanks lower down.

Sluices.

Irrigation under the tank is conducted by 2 masonry sluices and by open cuts in the bund. The masonry sluices are in good order except that they require some petty repairs. Two cement pipe sluices will be constructed one at C.S. No. 4 and the other at C.S. No. 16 as per plans herewith enclosed.

Tank Bund.

The bund is low and weak throughout and appears to have been long neglected. It is now proposed to raise the bund to 3 feet above M.W.L with a top width of 4 feet and side slopes 1½ to 1.

Supply channel

A portion of the surplus of the upper

6 Sh

upper tanks entered this tank originally through the supply channel. The supply channel is so silted up that it is beyond the means of the ryots to put it into good order. It is proposed to restore this channel with a bed fall of 1 in 500 and a bottom width of 22 feet, and full supply level of 4 feet from cs. No. 11 to cs. No. 13. and of 3 feet from cs. No 2 to cs. No ~~No.~~ 11.

The channel is designed to carry 1/3 of the surplus from Alattur tank i.e. 619 cusecs. Provision is made in the estimate for the extra earthwork required for banking which will be 3 feet above F.S.L.

The work will be carried out according to the current Depart-mental standard

Specifications

Specifications

H. T. Kirkby
1.9.00
Executive Engineer
Madura Div

Ed
27/8/00

1 Estimate
1 Sketch map.
2 Longl. sections.
5 Cross sections.
1 Enlarged sections of tank.
2 Plans of cement pipe sluices.
2 Weir plans.
14

ESTIMATE FORM—Abstract—Classified.

Sub-head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	REMARKS.
1	2	3	4	5	6	7
	Capital expenditure not charged to Revenue					7 Pro
	49 Irrigation					
	Periyar Project					
	Open Capital Accounts					
	1- Works					
	3- Distributaries					
	Kunnathur Offtake					
	9th Branch Chl					
	Unremunerative works					
	Improvements to ~~Velathur~~ Vilattur Tank.					
C- Works or Masonry works	1- Masonry weir at left flank	330 ×				
	2- Cement pipe sluice at C.S. No 4	81 ×				
	3- Do do at C.S. No 16	140 ×				
	4- Masonry weir at right flank	529 ×				
	5- Dry stone revetment	540 ×				
			1620 ×			
	Total ~~Rs~~ I Works			1620 ×		
	II Establishment			373		
	~~III Tools & plant~~			~~7~~		
				~~2000~~ 1993		

Sanctioned in G.O. No. [illegible] 16-6-0[illegible]

1620
.23
4860
3240
372/60

STATION——
Dated——

PWE 119 5735/[illegible]

Executive Engineer.

5000—6-5-99.

(E. No. 126.)

_______________ CIRCLE.

DIVISION—

DISTRICT—

ESTIMATE FORM—Abstract—Classified.

To accompany the Detailed Estimate No.

of 189 -9 for *

---

* Here enter the Name and Description of work in full.

Report to accompany the estimate for repairs and improvements to No. 197 Varichujur tank.

8 Sp

Encl. 16 as detailed below

Amount of estimate Repairs Rs. 2360

Amount of estimate Improvements Rs. ~~4160~~ 6310

Total amount of estimate - Rs. ~~6520~~ 8670

General

This tank in addition to the drainage from its own catchment area receives supply from a masonry sluice above Drop No. 11 Kunnathur offtake 9th Branch channel.

Surplus arrangements.

The Surplus now flows over hard natural ground at the left flank and over the existing calingulah at the right flank. As the surplus arrangements are defective, the tank often breaches. It is therefore proposed to extend the calingulah (at rt. flank) 75 ft long by ~~88~~ 75½ feet and convert it into a weir, and construct a combined weir

No. E81 / 7/5/2

weir and byewash 180 feet long as per accompanying plans (at the left flank).

The ayacut under the tank is now irrigated by open cuts and country pot sluices. The tank has 3 masonry sluices, which are all in a ruined state. It is now proposed to construct masonry and cement pipe sluices as per accompanying plans. Sluices.

The bund is very low and weak and appears to have been long neglected. It is now proposed to raise the same to 3 feet above M. W. L. with a top width of 5 feet and side slopes of 1½ to 1. The work will be carried out according to the current Departmental standard specifications.

1. Estimate -
1. Sketch plan.
3 Longl. sections
6 Cross sections -
3 Plans of cement pipe sluice -
1. Plan of masonry sluice -
1. Plan of masonry + natural escape -
1. Plan of existing [illegible]
16

[illegible]

A. I. Kerl[illegible]
1.9.00
Executive Engr.
Madura [illegible]

ESTIMATE FORM—Abstract—Classified.

Sub-head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	REMARKS.
1	2	3	4	5	6	7
	Capital expenditure not charged to revenue					
	49- Irrigation					
	Periyar Project					
	Open Capital account					
	1- Works					
	3- Distributaries					
	Kunnathur & Chunambur offtakes					
	9" Branch Channel					
	Improvements to No 197 Varichyur Tank					
Works or masonry works	1- Masonry and natural escape at L-flank	270				
	2- Cement pipe sluice at C.S. No 5	100				
	3- Do- do- at C.S.No 9	316				
	4- Masonry sluice at C.S. No 19	390				
	5- Cement pipe sluice at C.S. No 24	327				
	6- Do do. at C.S.No 34	282				
	7- Improvements to the existing Calingulah (Extending Lumpraing)	2475				
	8- Revetment to bund	2150				
			6310			
	I Works					
	Total Rs			6310		
	~~II Establishment~~			~~1451~~		
	~~III Tools & plant~~			~~9~~		
				~~7770~~ 7,761		

Sanctioned G.O. No. 687 I, 16.6.02 — G.Bm

6310
23
18930
12620
1451/30

13/5/02

STATION ——
Dated ——

PW 2/100
5735/2

Executive Engineer.

(E. No. 126.)

_______________CIRCLE.

DIVISION—

DISTRICT—

ESTIMATE FORM—Abstract—Classified.

To accompany the Detailed Estimate No.

of 189 -9 for *

* Here enter the Name and Description of work in full.

10 E.P.

Report to accompany the estimate for repairs and improvements to No. 192 Achangulam Tank

Engineer ... Office 20 SEP 1900 ... Circle

Amount of estimate Repairs Rs 1000

Amount of estimate Improvements Rs 1300

"Total amount of estimate Rs 2300" 8140

Enclo: 8 as detailed below

Source of supply. The tank receives, in addition to the drainage from its own catchment, Periyar supply through a masonry sluice above Drop No 10 in Kunnathur offtake and surplus into Rajakkur Tank.

Surplus arrangement. The surplus at present flows over the laterite surface at the left flank, where the ground is uneven and below the proposed F.T.L. It is now proposed to construct a masonry wall 140 feet long as per accompanying plan to enable the ryots to store water to F.T.L.

Sluices. There are 2 masonry sluices for this tank and both of them are in good order except that they

they require some petty repairs for which provision is now made. Two cement pipe sluices are proposed; one at C.S. No. 20 and the other at C.S. No 25 for the irrigation of the waste lands etc at the right flank.

It is proposed to raise the F.T.L of this tank; this is explained elsewhere. The bund is low and very weak throughout, as no repairs to the tank have been carried out for a long time past and it is now proposed to raise the same to 4 feet above M.W.L at the centre and 3 feet above M.W.L at the flanks with top widths of 5 feet & 4 feet respectively and side slopes of 1½ to 1 & 2 to 1 in front & rear respectively as the soil is sandy. Provision is also made in the estimate for revetting the front slope in 2 places as shown in Longl. section as they are much exposed to wave action. The estimate also provides for aloe fencing in double rows along the

Tank bund

118½

the outer toe of bank for 6000 feet to prevent the cattle straying on the slopes and to keep the rear slopes being washed down during heavy rain.

The work will be carried out accor[ding] to the current departmental standar[d] specifications

H. I. Richey
5.9.00
Executive Engineer
Madura Dn

W
1/9/10

1/ Estimate
1/ Sketch plan.
1 Longl sections
2. Cross — " —
2/ Plans of cement pipe sluice.
1. Plan of natural & masonry escape.
8

PW 525 / 5735/2

ESTIMATE FORM—Abstract—Classified.

Sub-head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	REMARKS.
1	2	3	4	5	6	7
	Capital expenditure not charged to Revenue					12 Sb
	49- Irrigation					
	Periyar Project					
	Open capital account					
	1- Works					
	3- Distributaries					
	Kunnathur Offtake					
	9r Branch Chl					
	Unremunerative works					
	Improvements to No 192 Achengulam tank					
B- Land	Compensation for land	5824				
			5824			
C- Works or masonry works	2- Cement pipe sluice at C.S. No 20	275				
	3- Do do at C.S. No 25	135				
	4- Masonry weir and natural escape	240				
	5- Improvements to tank bund	650				
			1300			
O- Miscellaneous	6- Demarkation stones	16				
			16			
	I Works Total ~~Rupees~~			7140		
	II Establishment			303		
	~~III Tools & Plant~~			~~7~~		
				~~7450~~ 7,443		

18 Bf - 16-6-02

Forwarded to G.Cr.

7140
5834
1306
 23
3948
2613
30 268

STATION——
Dated——

PWE33
5757/2

Executive Engineer.

5000—6-5-99.

P. W. E. No. 126

________________ Circle.

Division—

District—

ESTIMATE FORM—Abstract—Classified.

To accompany the Detailed Estimate No.

of 189 -9 for *

* Here enter the Name and Description of work in full.

13SR

Report to accompany the estimate for repairs and improvements to No. 231 Varaghaneri and No. 230 Semmalipuliyangulam tanks

Supdg. Engineer's Office
No. ....
20 SEP 1900
P.W.D.
Sixth Circle.

Amount of estimate Repairs Rs 745 (730)

Amount of estimate Improvements Rs 1180 (1220)

Total amount of estimate Rs 1925 (1950)

Enclo: 9+1=10- as details below

Source of supply. These tanks receive in addition to the drainage from its own catchment basin, supply from the Distributary from the left sluice of Drop No. 8 Kunnatheno offtake, 9th Branch channel.

Surplus arrangements. The surplus at present flows through open cuts at the flanks and as the surplus arrangements are inadequate, the tank often breaches. It is now proposed to construct a vented weir 46 feet long as per accompanying plan to discharge the surplus.

The ayacut under the tanks is now irrigated by temporary pot sluices in the bund. Provision is made in the estimate for the construction of cement pipe sluices as per accompanying plans. The existing masonry sluice in Vaughaneri tank is out of order and is not worth repairing, and a new sluice will therefore be built in its place. Sluices.

The bund is low and very weak. It is now proposed to raise the same to 3 feet above M. W. L. with a top width of 4 feet side slopes of 1½ to 1 throughout, and the required earth will be taken taken from the bed of the tank. Tank bund

The work will be carried out according to the current Departmental standard specifications.

1. Estimate
1. Sketch map.
1. Longl. section.
3. Cross sections
3 cement pipe sluice plans
1. weir plan.

[illegible]

H. I. [illegible]
1-9-00
Executive Engineer
Madura Dn.

Pro E15
5735/2

ESTIMATE FORM—Abstract—Classified.

Sub-head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	REMARKS.
1	2	3	4	5	6	7

Capital Expenditure not charged to Revenue

49- Irrigation

Periyar Project

Open capital account

1- Works

3- Distributaries

Uthamapatti Offtake

9" Branch Cht.

Unremunerative works

Improvements to No 231 Varaghaneri and No 230 Semmalipuliyankulam

Sub-head	Names of Works	Amount	Total of Sub-heads	Total for each Canal	Total of each Main head	Remarks
C- Works or masonry works	1- Cement pipe sluice at C.S. No 3	110				
	2- Do- do- at C.S. No 7	260				
	3- Do- do- at C.S. No 11	260				
	4- Do- do- at C.S. No 15	280				
	5- Vented weir at right flank	310				
			1220			
	~~I Works~~ Total Rs			1220		
	II Establishment			287		
	~~III Tools + plant~~			~~9~~		
				~~1516~~ 1,501		

1220
23
3660
2440
28060

STATION——
Dated——

Executive Engineer.

(E. No. 126.)

________________ CIRCLE.

DIVISION—

DISTRICT—

ESTIMATE FORM—Abstract—Classified.

To accompany the Detailed Estimate No.
of 189 -9 for *

* Here enter the Name and Description of work in full.

Report to accompany the estimate for repairs and improvements to No. 199 Thalathamarai Kulam.

15 SP

Enclo = 11 as detailed below

Amount of estimate Repairs Rs. 830

Amount of estimate Improvements Rs. ~~3350~~ 3380

Total amount of estimate Rs. ~~4180~~ 4190

Source of supply.

The tank receives, in addition to the drainage from its own catchment area, supply through the distributary channel at 1 Mile 6 fur. Kunnathur offtake, 9th Branch channel.

Surplus arrangements.

The surplus now flows over hard ground at the left flank and the length available is enough to discharge the surplus quantity but as the surplus channel in rear is contracted and as the bed fall is not enough, the surplus does not run off properly and the tank often breaches. The ground level for a length of 50 feet is below the F.T.L and it is therefore proposed to construct

a weir

a weir with an apron in rear while the remaining length of escape will be paved with rough stone where laterite is not met with.

Provision is made in the estimate for deepening and widening the surplus channel to give a good run off in rear. The soil ~~is~~ along the surplus channel being hard gravel, laterite and soft rock, an average rate of Rs 6 per unit is provided in the estimate as it is difficult to classify the nature of the soil.

This tank has now an ayacut of 192.61 acres including a block of 40 acres of high level waste lands on the west side of the surplus channel, which can be irrigated only when the tank is full. These 40 acres therefore require supply direct from Periyar channels and must be so irrigated.

Sluices

The tank has 2 masonry sluices of which the first from the left flank is in very bad order and is not worth

worth repairing. It is now proposed to construct a cement pipe sluice at 325 ft. in Longl. section as per accompanying plan & estimate, to command the ayacut under the ruined sluice. The other masonry sluice, though in good order requires some petty repairs, for which a lump sum provision is accordingly made in the estimate. The high level fields at the right flank are now irrigated by a temporary pot sluice in the bund. Provision is made in the estimate for a cement pipe sluice at this place.

Tank bund. The bund is very weak in some places, where it is much exposed to wave action. Provision is made in the estimate for a rough stone revetment along this weak portion. The bund will be made 4 feet wide at top with side slopes of 1½ to 1 and 3 feet above M. W. L.

The work will be carried out according to the current departmental

departmental standard specifications.

H. T. Kirby [signature]
5.9.00
Executive Engineer
Madura Dn.

[initials] 6/9/00

1. Estimate.
1. Sketch map.
2. Longl. sections
2. Cross sections.
3. Plans of cement pipe sluice.
1. Plan of weir & Byewash.
1. Plan of surplus channel.

11

PWD4
5735/-

ESTIMATE FORM—Abstract—Classified.

Sub-head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	Remarks.
1	2	3	4	5	6	7
	Capital expenditure not charged to revenue					17 Br
	49 Irrigation					
	Periyar Project					
	Open capital account					
	1- Works					
	3- Distributaries					
	Kunnathur offtake					
	9" Branch Chal					
	Unremunerative works					
	Improvements to No 199 Thalathamarai tank					
B Lands	1- Compensation for land	159				
			159			
C- Works or Masonry works	2- Cement pipe sluice at 325 feet	86				
	3- Do-do-at 1050 feet	268				
	4 Do-do at C.S. No 15	94				
	5- Weir and Byewash combined	~~168~~ 198				
			~~616~~ 646			
L- Earth work	6- Excavating surplus channel	2565				
			2565			
O- Miscellaneous	7- Demarcation Stone	10				
			10			
	Total Rs I Works			~~3350~~ 3380		
	II Establishment			741		
	~~III Tools & plant~~			~~9~~		
				~~4130~~	4,121	

16.6.02

3380
159
3221
23
9663
6442
74083

STATION

Dated

Executive Engineer.

Pro Est 3735/2

(E. No. 126.)

20

_______________ CIRCLE.

DIVISION—

DISTRICT—

ESTIMATE FORM—Abstract—Classified.

To accompany the Detailed Estimate No.

of 189 -9 for *

* Here enter the Name and Description of work in full.

Report to accompany the estimate for repairs, and improvements to No. 208 Kolikudi and No: 212. Pottappanaiyur tanks.

18 $\frac{5}{4}$

SUPG. ENGINEER'S OFFICE,
No. 1230
20 SEP. 1900
P. W. D.
SIXTH CIRCLE.

Amount of estimate Repairs Rs. 1720

Amount of estimate Improvements Rs. 1650

Total amount of estimate Rs. 3370.

Enclo: 13. as detailed below.

General.

Pottappanaiyur and Kolikudi tanks are two separate ones and it is now proposed to form the two into one big tank for the following reasons.

1. The 2 tanks are situate quite close to each other, so that the bunds are almost contiguous.

ii The full tank level of Pottapanaiyur tank is only 6" below that of the other tank

iii Surplus of all the upper tanks enter into both the tanks, but the surplus entering each cannot be well defined unless some costly arrangements are made.

iv The cost of maintaining the combined tank will be less than

that

PWE 51
5735/2

of maintaining the tanks separately.

These tanks, are chiefly dependant for their supply on their catchment areas, but receive additional supply from the tail end of Kunnathore and Pappagudy offtakes. *Source of supply.*

The surplus now flows over hard laterite ground at the right flank of Kolikkudi tank and through the ruined calingulah at left flank of Pottapanaiyar tank. It would appear from the Longitudinal section that the bund of Pottappanaiyar tank often breaches for want of adequate surplus arrangements. It is therefore proposed to build two pucka masonry weirs one at each flank as per accompanying plans. The site and run off channels are such that no less costly design can be prepared. The ruined calingulah at left flank of Pottapanaiyar tank cannot be repaired efficiently. *Surplus arrangement.* *One masonry weir on L.F. & a combined masonry weir & byewash at R.F.*

There are 3 masonry sluices in Kolikkudi tank and one in Pottappanaiyar tank. These sluices, though in *Sluices*

in good order require slight repairs for which a lump sum provision is made in the estimate. The sluices in Kolikkudi tank are sufficient for the ayacut under it. The fields under Pottappanaiyur tank are now irrigated by one masonry sluice (which is in good order) and 2 pot sluices. Provision is now made for the construction of a masonry sluice and two cement pipe sluices as per accompanying plans. The two sluices on the left flank are chiefly intended for the irrigation of the waste lands under the tank.

Tank bund. The bund is low and very weak throughout and it is now proposed to raise the same to 3 feet above M.W.L with a top width of 5 feet and side slopes of 1½ to 1.

Submergence of Puttah lands. About 9.08 acres of puttah wet lands are subjected to submergence from the water spread of Kolikkudi tank and petitions are received year after year

from the ryots complaining of loss of crops. A statement of lands, so submerged accompany the report, so that waste lands might be given in exchange. No puttah lands are submerged by raising the F.T.L. of Pottappanaiyer tank by 6 inches.

The work will be carried out according to the current Departmental standard specifications.

Sd/
7/9/00

[illegible signature]
Executive Engr. G. Dn.
Madura Dt.

1. Estimate
1. Sketch plan
1. Longl. section
3. Cross sections
1 Enlarged section of Escape site
1. Plan of cement pipe sluice
1 Plan of masonry sluice
1 Plan of cement pipe sluice
1. Plan of masonry weir.
1. Plan of front elevation & Sections
1 Plan of existing calingulah -

ESTIMATE FORM.—Abstract—Classified.

Sub-head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	Remarks.
1	2	3	4	5	6	7
	Capital expenditure not charged to revenue					
	49- Irrigation					
	Periyar Project					
	Open capital account					
	1- Works					
	3- Distributaries					
	9th Branch channel					
	Unremunerative works					
	Improvements to Nos 208 + 212 Kolikkudi and Pottapanayur tanks					
C- Works or Masonry works	1- Cement pipe sluice at C-S-No 2	127				
	2. Masonry weir at left flank	745				
	3- Masonry Sluice at C-S-No 7	240				
	4- Cement pipe sluice at C-S-No 14	155				
	5 Weir and byewash combined	363				
			1630			
O- Miscellaneous	6- Demarcation stones	20				
			20			
	Total Rupees			1650		
	II Establishment			380		
				2030		

Margin calculation: 1650 / 23 / 4950 / 33 / 3795 / 8

25-2-2   5   5   5   5

Red annotations: No. 68 dated 9-2-01 / 16-6-01; Sanctioned; 70 Rs

STATION, ——————

Dated ————— 190

Executive Engineer.

5,000—12-12-01.

PWD 2B1 / 5735/2

(E. No. 126.)

——————CIRCLE.

DIVISION—

DISTRICT—

ESTIMATE FORM.—Abstract—Classified.

To accompany the Detailed Estimate No.

of 190 -190 for *

* Here enter the Name and Description of work in full.

Report to accompany the estimate for repairs and improvements to No. 174 Mochivatty and No. 175 Periyakadambangudi Tanks.

Amount of estimate Repairs Rs. 470

Amount of estimate Improvement Rs. 930

Total amount of estimate Rs. 1400

General

The tank receives the surplus of No. 162 Pidari endal tank (which is one of the tanks to be maintained as per G.O No. 710 I of 19th aug 96 and which I now propose to abandon) and is also supplied from the right sluice of Drp No. 1 Kunnathure offtake.

Surplus arrangements

The surplus at present flows through open cuts at the left flank of Mochivatti tank and at the right flank of Periyakadambangudi tank, the two tanks being more or less one. The surplus flows to No. 199 Thalathamarai tank through a circuitous

PWD 5735

course and it is now proposed to construct a vented escape at right flank of Periyakadamban-gudi Tank to discharge the total surplus, via the upperside of Nelli Endal to Thalathamarai tank.

Sluices.

Irrigation is at present conducted by open cuts and pot sluices which will be replaced by cement pipe sluices.

Tank bund.

The F.T.L is raised by 1½ feet and the reason for so doing is explained separately. The bund will be made 4 feet wide with side slopes of 1½ to 1. and will be 3 feet above M.W.L.

The work will be carried out according to the current Departmental standard Specifications

A. J. Kirk
1.9.00
Executive Engr
Madura Dn

ESTIMATE FORM—Abstract—Classified.

22 B

Capital Expenditure not Charged to Revenue
49- Irrigation
Periyar Project
Open capital Account.
1- Works
3- Distributaries
Kunnathur Offtake.
9th Branch Chal
Unremunerative works

Improvements to No 174 Mochivatty and No 175 Periyakadambankudy Tanks

Sub-head.	Names of Works.	Amount of Estimate for individual Works.	Total of Sub-heads.	Total for each Canal or Distributary.	Total of each Main head.	Remarks.
1	2	3	4	5	6	7
B- Land	1- Compensation for wet land	2985				
			2985			
C- Works or masonry works	2- Cement pipe sluice at C.S. No 2	215				
	3- Do Do at C.S. No 8	215				
	4- Vented weir at right flank	500				
			930			
I Miscellaneous	5- Demarcation stone	15				
			15			
	I Works					
	Total ~~Rupees~~			3930		
	II Establishment			217		
	~~III Tools & plant~~			~~3~~		
				~~4150~~	4,147	

G.O. No. 681 16.6.02
Sanction ... [illegible]

3930
2985
945
23
2835
1890
217|35

[illegible] 15/5/02

STATION ——
Dated ——

Executive Engineer.

Dr. E 79 5735/2

5000—6-5-99.

(E. [illegible] 126.)

______________ CIRCLE.

DIVISION—

DISTRICT—

ESTIMATE FORM—Abstract—Classified.

To accompany the Detailed Estimate No.

of 189 -9 for *

---

* Here enter the Name and Description of work in full.

Others 97
Plans 50 } (17) PW CNo. 5735
Recd
Regd } 7-6-02

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

H.E.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

1 Quote

Estes for improvements to the tanks in the Kunnathur group, Periyar project

READ the following

From the Supg. Engineer, 6th Circle, D/- 21st April 1902, No 576 M.D.

	Rs
Classified abstract estimate for improvements to Alattur tank amounting to	1,660
— Do — — Do — Vilattur tank	2,000
— Do — — Do — Varicheyur tank	7,770
— Do — — Do — Achangulam tank ...	7.450
— Do — — Do — Varaghaveri and Summalipuliyan kulam tanks	1,510
— Do — — Do — Thalathamarai tank.	4,130
— Do — — Do — Kolikkudi and Pottappaniyur tanks.	2,030
— Do — — Do — Mochivatti and Periya Kadambankudy tanks.	4,150

Print with reports

20148 I 8/27/02

Issue

23 P

4/6/02

No.	2	Rs +
No. 204.	Alattur tank ...	1,420
No. 211.	Vilattur tank ..	1,620
No. 197.	Varicheyur tank ..	6,310
No. 192.	Achangulam tank ..	7,140
Nos 230 & 231.	Varaghaveri and Summalipuliyan kulam tanks	1,220
No. 199.	Thalathamarai tank	3,350
Nos 208 & 212.	Kolikkudi and Pottappaniyur tanks ..	1,650
Nos 174 & 175.	Periya Kadambankudy & Mochivatti tanks	3,930
		26,640

+ for works only

Note by the Chief Engineer for Irrgn.

—

The Superintending Engineer, Sixth Circle, submits estimates amounting to Rs 26,640 for improvements to the marginally noted eight tanks in the Kunnathur tank group under the influence of the Periyar Project. The improvements proposed are

are

(1) providing the tanks with adequate surplus works.

(2) Constructing masonry and cement pipe sluices in lieu of the existing pot sluices and open cuts and

(3) Cutting and widening the supply channels of some of them.

2. The Superintending Engineer proposes to abandon No. 162 Pidari Endel, No. 182 Nelli Endel and No. 195 Parayankulam tanks and to increase the capacities of those marginally noted ~~tanks~~ by raising their full tank level. It is stated that this arrangement involves no loss of storage.

* Nos. 174 & 175. Periyakudambangudi and Mochivalli tanks
No. 192. Achankulam tank
No. 204. Alattur tank.

3. The Collector has approved the Superintending Engineer's proposals. The estimates as increased in this Office to Rs 26,670 × ~~[illegible] 30,656~~ ~~including establishment~~ owing to errors found in the Calculations may

× or Rs 30,656 including establishment

240

may be sanctioned.

4. The works are classed as "Unremunerative" as they are not directly remunerative in themselves but being required for the full development of the Periyar Project may be charged to the open capital account thereof. They will probably be completed by the 31st March 1903.

Order thereon No. 681 I. of 16.6.1902

The estimates ~~amounting in the aggregate to Rs 26,670~~ for the works enumerated in para 1 of the note by the Chief Engineer for Irrigation are sanctioned.

2. This sanction ~~are~~ is registered as Nos 621 to 697 of 1902-03 ~~respectively~~ and will expire on the 31st March 1903.

3. Ordered that a copy of

[initials] 2-6-02

of these Proceedings be forwarded to the Government of India for information.

Endorsement No. 682 I. of 16th June 1902

Forwarded.

A.T.M. 23/5/02

27/5/02

DESPATCHED -1 JUL. 1902

F.R.I.

To,

DESPATCHED -1 JUL. 1902

The Chief Engineer for Irrigation

The Superintending Engineer, VI Circle, with plans and estimates

The Examiner, P.W. Accounts

21/5/02

E. I. Form No. 1 (a)—200—10-5-01.

IRRIGATION.

Government {1896} of Madras,

PUBLIC WORKS.

Recd.	1896.	*Enclosures*
Regd.		*Spare copies*

G.O., No. 710 I., 19th August 1896.

AUGUST.

Tanks

Approving, with remarks, the proposals of the Superintending Engineer relative to the retention of some — and the abandonment of others under the influence of the Periyár main channel.

GOVERNMENT OF MADRAS

PUBLIC WORKS DEPARTMENT.

Irrigation.

Read—the following papers :—

From W. HUGHES, Esq., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Trichinopoly, 29th May 1896, No. 580 M.D.

It has become necessary to lay down some definite rule for the classification of estimates for works affected but not entirely superseded by the Periyar works. Hitherto, in the case of tanks through which the main canal passes, estimates for the repair of such tanks, for the reconstruction of sluices in them or construction of sluices in lieu of cuts or pot-sluices have been carried out from Provincial Irrigation funds. You approved of this classification in your No. VI—4 P.R., dated 3rd September 1892, in a particular case referred to you and your orders have been held to apply to all similar cases.

2. Of the 1,000 and odd tanks in the area affected by the project, probably one-fourth will be retained. In connection with the tanks to be abandoned since the bunds cannot be cut through and drainage allowed to pass over the irrigated land, the surplus works will have to be breached and the outfall channels deepened or in some other way the tank beds laid partly dry and made available for cultivation. Should the expense of this be charged to the project?

3. In the case of tanks to be retained it has to be considered that the present supply of these tanks is being interfered with as little as possible and in most cases it will be improved by the abandonment of the small tanks in their drainage basins. The Periyar water will supplement the supply as far as required and there will therefore be some extension of irrigation under the tanks. Also as the supply will be more certain the assessment will be raised, except in the case of some tanks now supplied from the river, and the increase of assessment credited to the project. On the other hand it does not seem right to charge the project with the cost of putting in order all these tanks which, except the more important ones affecting the safety of the South Indian Railway, have been systematically neglected for many years under the idea that they would be all or nearly all abandoned. I hope to submit very shortly a list of tanks in the Madura taluk which it is considered advisable to retain, and if possible I shall get a rough estimate of the probable cost of putting them in order. I think these tanks should be put into thorough order from Provincial funds by grants made from time to time as it is found practicable to take up the work.

Memo. No. VI—17 P.R.

With reference to letter No. 580 M.D., dated 29th May 1896, from the Superintending Engineer, VI Circle, the undersigned has the honour to say that, as the estimates sanctioned for the Periyar project do not provide for the restoration of the tanks which it is intended to retain under the project, it seems necessary that their restoration should be carried out from Provincial funds under 45. Minor Works and

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.

READ—the following papers :—

From W. HUGHES, Esq., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Trichinopoly, 29th May 1896, No. 580 M.D.

It has become necessary to lay down some definite rule for the classification of estimates for works affected but not entirely superseded by the Periyár works. Hitherto, in the case of tanks through which the main canal passes, estimates for the repair of such tanks, for the reconstruction of sluices in them or construction of sluices in lieu of cuts or pot-sluices have been carried out from Provincial Irrigation funds. You approved of this classification in your No. VI—6 P.R., dated 3rd September 1892, in a particular case referred to you and your orders have been held to apply to all similar cases.

2. Of the 1,000 and odd tanks in the area affected by the project, probably one-fourth will be retained. In connection with the tanks to be abandoned since the bunds cannot be cut through and drainage allowed to pass over the irrigated land, the surplus works will have to be breached and the outfall channels deepened or in some other way the tank beds laid partly dry and made available for cultivation. Should the expense of this be charged to the project?

3. In the case of tanks to be retained it has to be considered that the present supply of these tanks is being interfered with as little as possible and in most cases it will be improved by the abandonment of the small tanks in their drainage basins. The Periyár water will supplement the supply as far as required and there will therefore be some extension of irrigation under the tanks. Also as the supply will be more certain the assessment will be raised, except in the case of some tanks now supplied from the river, and the increase of assessment credited to the project. On the other hand it does not seem right to charge the project with the cost of putting in order all these tanks which, except the more important ones affecting the safety of the South Indian Railway, have been systematically neglected for many years under the idea that they would be all or nearly all abandoned. I hope to submit very shortly a list of tanks in the Madura taluk which it is considered advisable to retain, and if possible I shall get a rough estimate of the probable cost of putting them in order. I think these tanks should be put into thorough order from Provincial funds by grants made from time to time as it is found practicable to take up the work.

Memo. No. VI—17 P.R.

With reference to letter No. 580 M.D., dated 29th May 1896, from the Superintending Engineer, VI Circle, the undersigned has the honour to say that, as the estimates sanctioned for the Periyár project do not provide for the restoration of the tanks which it is intended to retain under the project, it seems necessary that their restoration should be carried out from Provincial funds under 43. Minor Works and

Navigation. But before deciding finally on the incidence of the expenditure the Superintending Engineer is requested to report the probable cost of restoring the tanks, their present and anticipated revenue.

2. It has been decided in the case of the Rushikulya project that the cost of draining tank beds to fit them for cultivation should be debited to "Land Revenue" and the same course will have to be adopted also in the case of the Periyár project.

(Signed) R. R. E. DRAKE-BROCKMAN, Col., R.E.,
Chief Engineer for Irrigation.

8th June 1896.

From W. HUGHES, Esq., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Trichinopoly, 22nd July 1896, No. 854 M.D.

As promised in my letter No. 580 M.D., dated 29th May 1896, I have the honour to submit, for approval, a list of tanks commanded by the Periyár main canal in Madura taluk with proposals for retaining or abandoning them.

2. While so little is known of the capabilities of the Periyár lake in a bad monsoon, it would be very rash to give up any tanks which can be economically maintained. Even after a good monsoon in which it may be expected that the lake will receive a large supply up to early in December, it is very doubtful whether there would be a full supply for the irrigable area for more than two months after the cessation of the monsoon rains. Under such circumstances the water previously stored in the plains would be of great assistance in bringing the crops to maturity. The full demand in the north-east monsoon is taken by Colonel Pennycuick at 1,000 cubic feet per second, but this quantity cannot be given when the lake falls below level 121. It will certainly pay to economise the Periyár water which, if it can be properly utilized, should be worth at least Rs. 20 per million cubic feet. Keeping this in view, the selection of the tanks to be maintained has been so made that all ordinary rainfall drainage will be caught up. The tanks to be given up will as a rule be those which are small and shallow and in which a great proportion of the supply would be lost by evaporation. In exceptional cases, tanks which might otherwise be given up are recommended to be retained when they are required as flood regulators or as distributing reservoirs. If it is found that too many tanks are retained it will always be possible to give up some.

3. Of the 231 tanks in the list it is proposed to keep 80. The remaining 151 irrigate only 5,858 acres and have an area of 3,189 acres, of which something over 2,000 acres will become available for cultivation. The loss of storage by the abandonment of these tanks is roughly estimated at 16 per cent., but this will be in great measure recouped by the drainage going more directly to the larger tanks instead of being intercepted as now by small tanks.

4. The outlines of the present wet land have not been correctly drawn on the irrigation map. From the papers printed with G.O., No. 153 of 15th February 1892, it would appear that the occupied and unoccupied dry lands (waste and tank bed poramboke being excluded) are of nearly equal extent with the wet land.

5. From the experience of this year when the Periyár lake remained at the same level from 20th February to the middle of June, it is clear that we cannot safely calculate on any supply in the hot weather, and if water is to be supplied for seed beds in May it is a matter for serious consideration whether it will not have to be made a rule to reserve a certain quantity of water in the lake. It appears to me that if cultivation is not begun in May, the ryots will have a difficulty in getting their first crop reaped before the north-east monsoon rains. For some years to come there will be no difficulty (unless when the monsoon fails), but in the future when the irrigation has extended it will be very advisable to have the means of sparing the Periyár water during the first three months of the year. The tanks in the Madura taluk would then be of great assistance and of the more importance, as it is now thought that it will not be found advisable to keep more than 30 of the Mélúr tanks which are nearly all very small and shallow.

ENCLOSURE.

PERIYAR PROJECT.

STATEMENT containing proposals for abandoning or maintaining Periyar affected tanks, Madura taluk.

Number.	Name of village.	Name of tank.	Tanks to be maintained or left as it is.		Tanks to be abandoned.		Area of water spread.		Depth of water above sill level to F.T.L.	Approximate capacity of tanks in millions.		Means to irrigate the lands under the tank.	State of bund of tanks.	Remarks.
			Wet ayacut.	Revenue.	Ayacut.	Revenue.	Acres.	Cents.		Maintained or left as it is.	Abandoned.			
			ACS.	RS.	ACS.	RS.								
1	Karuputty ..	Poolamadai	..	..	96	606	36	..	3·3	..	1·72	By sluice in Vadagarai channel.	Bad ..	To be abandoned.
2	Do. ..	Odaikulam	..	..	49	355	21	..	3·0	..	0·91		..	Do.
3	Do. ..	Kurupattikulam	..	..	24	175	11	..	3·5	..	0·58		..	Do.
4	Irumbalai ..	Pudukulam	..	..	41	284	20	..	7·8	..	2·27		..	Do.
5	Do. ..	Mandaikulam	..	..	62	398	14	..	6·0	..	1·22		..	Do.
6	Neerathan ..	Rengasamudram	..	..	80	266	30	..	8·22 & 8·1	..	3·58	By sluice in the main channel.	Good ..	Do.
7	Do. ..	Periyakulam	..	..	208	860	101	..	5·02, 7 35, 8·3 & 8·16	..	12·39		..	Do.
8	Do. ..	Pudukulam	..	..	85	346	70	..	3·46 & 7·67	..	7·79	By No. 7 tank	..	Do.
9	Do. ..	Sellikulam and Pudukulam.*	..	..	22	77	..	..	..	..	..	....	..	Do.
10	Sholavandanpettai, Salakurichy.	Vadagarai Kammoy ..	2,294	15,570	..	..	748	..	5·58, 6·87, 13·28, 16·48, 17·90, 9·41, 15·54 & 17·02	241·55	..	By Vadagarai channel and first branch channel.	Bund good, except in 3 places at centre.	To be maintained.
11	Kottakolam ..	Periyakulam	503	2,370	..	..	246	..	11·65, 9·27 & 15·46.	55·01	..	By second branch channel.	Good ..	Do.
12	Do. ..	Somarasankulam or Sinna Kammoy.	..	..	125	621	11	..	6·08	..	0·97	Through No. 11, Peria Kammoy.	..	To be abandoned.
13	Nedunkulam ..	Pudukulam	108	454	..	..	51	..	3·64 & 3·62	6·42	..	Through Vadagarai No. 11, Periyakulam tank.	..	To be left as it is.
14	Do. ..	Periyakulam	152	542	..	..			6·86, 6·87 & 6·25			First branch channel, if restored.	..	To be maintained.
15	Do. ..	Rayappasamykulam ..	9	19	..	..	..	..	8·2	..	..	No means, as they are between zemindari and devastanam lands.	Bad ..	To be left as it is.
16	Do. ..	Tamarikulam	9	18	..	..	13	59	7·0	1·38	..		Do. ..	
17	Thiruvadagam.	Kakkakulam	..	..	10	26	6	69	3·0	..	0·29	By first branch channel ..	Do. ..	To be abandoned.
18	Thenoor ..	Pudukulam	21	65	..	..	40	..	4·3	2·49	..	No means of irrigating the ayacut.	Do. ..	To be maintained.
19	Do. ..	Periyakulam	449	2,526	..	..	198	..	6·13, 7·3 & 5·3	20·96	..	Vadagarai tank first branch channel, Corambu channel.	Bad at flank.	Do.
20	Thodaneri ..	Peria Kammoy	489	1,620	..	..	254	..	7·66, 8·66& 8·30	31·89	..	By No. 19 tank	Good ..	Do.
21	Samayanallur ..	Potta Kammoy	17·83	57	..	..	..	..	3·92	3·24	..	Corambu channel	Do. ..	To be left as it is.
22	Do. ..	Arsangulam	97	523	..	..	112	..	6·08, 6·86& 7·60	12·34	..	No. 19 tank	Do. ..	To be maintained.
23	Paravai ..	Vangulam	..	..	108	270	27	..	5·94	..	2·33	Nos. 19 and 20 tanks ..	Bad ..	To be abandoned.
24	Do. ..	Peria Kammoy	385	1,720	..	..	356	..	8·514·52 & 11·48.	74·95	..	Nos. 22 and 20 tanks and Corambu channel.	Good ..	To be maintained.
25	Do. ..	Vannankulam *	..	..	19	46	15	..	4·5	..	0·98	Through No. 24	Bad ..	To be abandoned.
26	Sinnayelandakulam.	Kodankulam	..	..	36	161	7	..	6·98	..	0·71	Sluice at 16 miles 7 furlongs.	Good ..	Do.

Statement containing proposals for abandoning or maintaining Periyar affected tanks, Madura taluk—*cont.*

Number.	Name of village.	Name of tank.	Tanks to be maintained or left as it is.		Tanks to be abandoned.		Area of water-spread.		Depth of water above sill level to F.T.L.	Approximate capacity of tanks in millions.		Means to irrigate the lands under the tank.	State of bund of tanks.	Remarks.
			Wet ayacut.	Revenue.	Ayacut.	Revenue.	Acres.	Cents.		Maintained or left as it is.	Abandoned.			
			ACS.	RS.	ACS.	RS.								
27	Sinnayelandakulam.	Vattamaniakarunkulam ..	..	.. ..	38	132	30	..	7·97	..	3·47	Sluice at 16 miles 7 furlongs..	Bad ..	To be abandoned.
28	Do. ..	Sinnammakulam ..	..		29	104	17	..	6·18	..	1·53	Do. do. ..	..	Do.
29	Kallinelipatty..	Iraniammakulam ..	..	..	50	174	44	..	5·15	..	3·29	Sluice at 15 miles	..	Do.
30	Athalai ..	Athalai tank	230	976	..	..	107	..	10·9 & 11·04	17·13	..	By third branch channel ..	Good..	To be maintained.
31	Pothoombu ..	Pothoombu Mela Kammoy..	230	722	..	..	79	..	9·35 & 5·35	10·71	..	Athalai tank	Do. ..	Do.
32	Do. ..	Do. Keela do. ..	177	1,025	..	..	171	..	9·32, 9·82 & 6·97	24·35	..	By fourth branch channel ..	Bad ..	Do.
33	Koilpapagoody.	Papagoody Sinna Kammoy.	..	..	186	831	111	..	5·75 & 7·25	..	11·67	Pothoombu Keela Kammoy ..	Do. ..	To be abandoned.
34	Do. ..	Do. Periya do. ..	329	1,517	..	..	148	..	9·66 & 8·66	20·73	..	Athalai tank	Do. ..	To be maintained.
35	Sallyaneri ..	Sallyaneri tank	178	629	..	..	91	..	8·66, 5 & 10	13·20	..	Pothoombu Keela Kammoy ..	Do. ..	Do.
36	Vilangudi ..	Kariselkulam	..	..	129	373	62	..	5·75 & 4·75	..	5·17	Do. do. ..	Good..	To be abandoned.
37	Do. ..	Periyakulam	284	968	..	..	128	..	5, 2·6, 6·72 & 7·8	14·48	..	Papagoody Peria Kammoy and Paravai tank.	Do. ..	To be maintained.
38	Do. ..	Shhankulam	55	215	..	..	13	..	5·16	0·98	..	Vilargudi-Periyakulam and Corambu channel by river.	Do. ..	To be left as it is.
39	Kallavai ..	Kallavai east tank ..	..	..	153	467	83	..	8·5	..	8·42	By sluice in main channel and by fourth branch channel.	Bad ..	To be abandoned as tank bed is mostly patta land.
40	Do. ..	Do. west tank ..	..	..	141	313			4·5, 7 &6	..				
41	Do. ..	Peekulam or Pudukulam ..	..	..	21	41	5	..	4	..	0·29	By fourth branch channel ..	Do. ..	To be abandoned.
42	Do. ..	Kasaneri	..	..	46	101	43	..	4·4	..	2·75	Third and fourth branch channels.	..	Do.
43	Do. ..	Mulyannan Oorany ..	..	..	16	33	10	..	3	..	0·43	By sluice in main channel ..	Bad ..	Do.
44	Do. ..	Chinna Oorany	..	..	3	..	..	..	..	..	..	....	..	Do.
45	Kumaram ..	Kumaram tank	86	309	..	..	61	..	6·7	5·93	..	Fourth branch channel ..	Good..	To be maintained.
46	Kammalapatty.	Kammalapatty tank ..	..	..	103	312	13	..	7 5	..	1·43	Sluice in main channel ..	Do. ..	To be abandoned.
47	Thandalai ..	Thandalai Kammoy ..	263	1,408	..	..	120	..	8·2 & 11·75	20·45	..	Thandalai offtake	Do. ..	To be maintained.
48	Maniangi ..	Maniangi tank	..	..	73	210	23	..	9	..	3·00	Fourth branch channel .	..	To be abandoned.
49	Poodagudi ..	Poodagudi tank ..	243	1,406	..	..	134	..	7·10 & 5	19·43	..	Fourth branch channel and Thandalai offtake.	Good..	To be maintained.
50	Mulakaranai ..	Malakaranai Kammoy ..	..	..	81	260	63	..	7	..	6·40	Fourth branch channel ..	Bad ..	To be abandoned.
51	Anaiyur ..	Anaiyur Kammoy ..	124	548	..	..	140	8	9	18·37	..	Fourth branch channel through No. 35.	Good..	To be maintained.
52	Do. ..	Kollangulam	..	..	43	146	31	11	4 & 3·5	..	1·81	Thandalai offtake and Anaiyur tank.	Do. ..	To be abandoned.
53	Do. ..	Kosakulam	..	..	47	227	48	..	4, 6 & 4·5	..	4·18		Do. ..	Do.
54	Do. ..	Pudukulam	..	..	..	..	18	..	4	..	1 04	Mayur tank	Do. ..	Do.
55	Do. ..	Mudakattangulam ..	..	..	29	73	18	..	5·5	..	1·44		Do. ..	Do.
56	Do. ..	Chinna Kammoy	..	..	..	..	6	..	4	..	0·35		Do. ..	Do.
57	Thathaneri ..	Thathaneri tank	355	992	..	..	153	..	5, 7·5 & 6·5	16·64	..	Vilangudi and Anaiyur tanks.	Do. ..	To be maintained.
58	Sellur ..	Sellur Kammoy	185	945	..	..	117	..	3, 7 & 8·6	14·59	..	Thathaneri Corambu channel by Vaigai.	Do. ..	Do.

59	Kulamangolam.	Kulamangolam Kammoy ..	242	1,043	..	..	128	..	7·5 & 8·75	16·24	..	Thandalai tank and offtake ..	Do. ..	Do.
60	Do. ..	Periya Elambur	..	..	78	240	34	..	3	..	1·48	Kulamangolam and Thandalai offtake	Bad ..	To be abandoned.
61	Do.	Sinna do.	..	..	32	79	27	..	5	..	1·96	Do. do.	Do. ..	Do.
62	Do.	Arasapillai endal* ..	..	..	2	4	7	..	3	..	0·30	Do. do.	Do. ..	Do.
63	Pechikulam ..	Pechikulam	..	..	52	118	43	..	4, 5 & 5·5	..	3·43	Thandalai offtake	Do. ..	Do.
64	Do. ..	Poosarikothankulam* ..	..	..	5	9	8	..	3·5	..	0·41	Do.	Do. ..	Do.
65	Do. ..	Pidaran Oorany*	..	..	2	4	4	..	4	..	0·23	Do.	Do. ..	Do.
66	Karunanur ..	Periyakulam	215	760	..	..	94	..	6 & 8·5	11·59	..	Fifth branch channel ..	Do. ..	To be maintained.
67	Do. ..	Chinna Kammoy ..	..	..	63	222	32	..	5 & 6·5	..	2·76	Periyakulam	Do. ..	To be abandoned.
68	Therkupattiyam-patti.	Thenithangulam ..	..	..	33	67	25	..	8	..	2·90	Proposed new sluice at 22 miles.	Good ..	Do.
69	Do.	Vilathiakundukulam ..	..	..	14	..	..	..	..	..	..	....	..	Do.
70	Do.	Pungangulam	..	..	50	146	35	..	8	..	4·06	Proposed new sluice at 22 miles.	Bad ..	Do.
71	Do.	Vannankulam	..	..	28	56	27	..	4	..	1·57	Do.	Do. ..	Do.
72	Velichinatham.	Nayammakulam	..	..	53	119	23	..	4	..	1·34	Vadarkulam and sixth branch channel.	Do. ..	Do.
73	Do. ..	Puliyangulam	..	..	43	87	25	..	6	..	2·18	Sixth branch channel ..	Do. ..	Do.
74	Do. ..	Meenatchipuram Kammoy ..	..	..	58	116	23	..	7	..	2·34	Do.	Do. ..	Do.
75	Do. ..	Sammugam Pillaikulam ..	..	..	2	..	..	..	..	..	..	....	..	Do.
76	Do. ..	Kavanur tank	168	445	..	..	44	..	5·5 & 8	5 10	..	Sixth branch channel ..	Bad ..	To be maintained.
77	Mandikulam ..	Mandikulam	..	..	120	305	32	..	3·5 & 5·5	..	2·56	Kananur tank	Do. ..	To be abandoned.
78	Do. ..	Palayampattikulam ..	..	..	31	77	39	..	6·5	..	3·68	Do.	Do. ..	Do.
79	Koolapandy ..	Pudukulam	110	269	..	..	43	..	5·5	3·12	..	Karuvanur Periyakulam ..	Do. ..	To be maintained.
80	Do. ..	Sakkarapondi	37	124	..	..	30	..	5 & 8·5	3·70	..	Do. ..	Do. ..	Do. Nos. 79 & 80 to be made into one.
81	Settikulam ..	Sambankudikulam ..	..	..	47	118	24	..	5 & 4·5	..	1·74	Vidathakulam	Do. ..	To be abandoned.
82	Do. ..	Vidathakulam	107	291	..	..	84	..	9	10·96	..	Fifth branch channel ..	Do. ..	To be maintained.
83	Do. ..	Settikulam	..	..	18	58	42	..	5·4	..	3·05	Do. ..	Do. ..	To be abandoned.
84	Sathrathondam-patty.	Komalaikulam	..	..	11	22	9	..	4·5	..	0·59	Sixth branch channel ..	Do. ..	Do.
85	Do.	Konankulam	..	..	27	55	7	..	4, 4 & 3·5	..	0·41	Do. ..	Do. ..	Do.
86	Chinnapatty ..	Pudukulam	..	..	22	55	5	..	3	..	0·22	Do. ..	Do. ..	Do.
87	Do. ..	Narayanakudikulam ..	..	..	74	218	20	..	7 & 7·9	..	2·61	Do. ..	Do. ..	Do.
88	Do. ..	Surakudi Kammoy ..	..	..	19	87	7	..	3·5	..	0·35	Proposed new sluice at 25 miles 1 furlong.	Do. ..	Do.
89	Periyapatty ..	Kangaram Kammoy ..	..	..	47	118	31	..	6·6	..	2·97	Sixth branch channel ..	Good ..	Do.
90	Do. ..	Pudukulam	..	..	3	10	1	..	3	..	0·04	Do.	Do. ..	Do.
91	Parapatty ..	Parapatty Kammoy ..	35	87	..	..	19	..	7	1·93	..	Do.	Do. ..	To be maintained. One tank.
92	Do. ..	Pudukulam	124	345	..	..	65	..	4, 6 & 3·5	5·66	..	Do.	Do. ..	
93	Erukalanathan.	Erukalanathan	..	..	72	172	36	..	5 & 7·5	..	3·92	Parapatty-Pudukulam ..	Do. ..	To be abandoned.
94	Usilampatti ..	Usilampatti tank	..	..	59	149	33	..	4, 6, 6 & 5	..	2·87	Sixth branch channel ..	Do. ..	Do.
95	Kodimangalam.	Kodimangalam Kammoy ..	114	382	..	..	77	..	5 & 7·6	7·82	..	Do. ..	..	To be maintained.
96	Mangampatty ..	Sinnakulam	..	..	..	..	16	22	4·1 & 3·54	..	0·96	Proposed new sluice at 25 miles 1 furlong.	Bad ..	To be abandoned.
97	Do. ..	Periyakulam	..	..	120	366	16	13	6·8 & 2·97	..	1·59	Do. do. ..	Do. ..	Do.
98	Do. ..	Periya Kammoy	..	..	..	..	10	..	6·28 & 2·28	..	0·91	Mambet	Do. ..	Do.
99	Do. ..	Paraekankulam	..	..	17	..	10	50	2, 42, 3 & 1·6	..	0·46	Do.	Do. ..	Do.
100	Marundankulam.	Audanerikulam	71	142	..	..	69	..	3, 5 & 3·4	5·00	..	No means of irrigation ..	Do. ..	To be left as it is.
101	Do.	Maruthankulam	87	154	..	..	93	..	3·5	4·72	..	Do. ..	Do. ..	Do.
102	Do.	Vangolam	10	25	..	..	27	..	8·5 & 5	2·15	..	Do. ..	Do. ..	Do.
103	Do.	Kodikulam	74	241	..	..	82	..	5·00	5·94	..	Do. ..	Do. ..	To be maintained.

Statement containing proposals for abandoning or maintaining Periyár affected tanks, Madura taluk—*cont.*

Number.	Name of village.	Name of tank.	Tanks to be maintained or left as it is.		Tanks to be abandoned.		Area of waterspread.		Depth of water above sill level to F.T.L.	Approximate capacity of tanks in millions.		Means to irrigate the lands under the tank.	State of bund of tanks.	Remarks.
			Wet ayacut.	Revenue.	Ayacut.	Revenue.	Acres.	Cents.		Maintained or left as it is.	Abandoned.			
			ACS.	RS.	ACS.	RS.								
104	Thallakulam ..	Sembaikulam	17	44	..	..	27	..	4	1·57	..	No means of irrigation ..	Bad ..	To be left as it is.
105	Do. ..	Nunnaperichi tank ..	..	..	36	72	30	..	4	..	1·74	Thirupalai offtake	..	To be abandoned.
106	Do. ..	Thirolanath Kammoy ..	..	..	9	19	33	..	5	..	2·39	Do.	Bad ..	Do.
107	Do. ..	Pudu Kammoy	..	..	28	57	46	..	5	..	3·34	Do.	Do. ..	Do.
108	Do. ..	Puppakulam	..	..	9	20	50	..	4·5, 5	..	3·63	Do.	Do. ..	Do.
109	Do. ..	Kosakulam	..	..	45	103	62	..	5 & 4·5	..	4·50	Do. and Thandalai offtake.	Do. ..	Do.
110	Do. ..	Kallukulam	..	..	14	44	9	..	4	..	0·52	Thandalai offtake	..	Do.
111	Do. ..	Podarambu : ..	..	..	..	..	..	..	..	..	..	Do.	..	Do.
112	Do. ..	Mahabali Oorani	5	..	..	..	14	..	..	..	..	Do.	..	....
113	Do. ..	Sengulam tank	..	..	43	49	86	..	5	..	3·55	Do.	Bad ..	To be abandoned.
114	Do. ..	Valiyankulam	..	..	..	..	..	..	..	..	..	....	..	Do.
115	Do. ..	Thallakulam	91	298	..	..	77	..	6·00	6·69	..	Thandalai offtake	Good..	To be maintained.
116	Managiri ..	Managiri	95	465	..	..	49	..	6·5, 7 & 4·5	4·97	..	Thallakulam and Corambu channel.	..	To be left as it is.
117	Thallakulam ..	Four other small tanks ..	..	..	..	..	..	..	..	..	..	....	..	To be abandoned.
121	Kallandiri ..	Kannimarkulam	48	167	..	..	17	32	5, 4·6 & 3·1	1·26	..	7th branch channel	Good..	To be left as it is.
122	Do. ..	Kalkulam	..	..	30	89	11	69	5·05 & 3·31	..	0·86	Do.	Bad ..	To be abandoned.
123	Do. ..	Sinnawandur	..	..	26	90	16	85	3·8 & 2·1	..	0·93	Sluice in Thallakulam tank ..	Do. ..	Do.
124	Do. ..	Peria Amandur	89	311	..	..	33	23	5·1, 4·8 & 7·1 6·8 & 2·85	3·42	..	7th branch channel	Good..	To be left as it is.
125	Do. ..	Pillayarkulam	..	..	31	108	7	60	3·5, 5·2 & 3·7	..	0·57	Periawandur tank	Do. ..	To be abandoned.
126	Do. ..	Kullandirikulam	..	..	28	98	8	28	5·97 & 1·52	..	0·72	8th branch channel	Do. ..	Do.
127	Do. ..	Sinnanayanee	47	200	..	..	..	..	3·7, 3·9 & 5·5	1·33	..	Do.	Do. ..	To be left as it is.
128	Do. ..	Perianayanee	54	219	..	..	..	..	2·5, 3·4 & 6·9	4·96	..	Sluice at 28 mile 4 furlongs ..	Bad ..	To be maintained.
129	Do. ..	Valayamithan	47	192	..	..	73	..	3·5, 7, 6·35 & 5	1·79	..	8th branch channel	Good..	To be left as it is.
130	Do. ..	Valaiyankulam	126	440	..	..	17	5	4·7, 6·6 & 4·62	1·68	..	Perianayanee	Bad ..	Do.
131	Thuyaneri ..	Peria Kammoy	84	232	..	..	18	..	9	2·35	..	No means of irrigation being between inam tanks.	Do. ..	Do.
132	Do. ..	Chinna Kammoy	4	15	..	..	10	..	6	0·87	..	Do. do.	Do. ..	Do.
133	Arumbanur ..	Arumbanurkulam ..	121	420	..	..	76	..	9	9·92	..	8th branch channel	Do. ..	To be maintained.
134	Do. ..	Sembikulam	..	..	16	..	6	..	3	..	0·26	Do. and sluice at 28 miles 4 furlongs.	Do. ..	To be abandoned.
135	Do. ..	Pudukulam or Peekulam * ..	..	..	28	97	45	..	5	..	3·26	By No. 133	Do. ..	Do.
136	Pudupatty ..	Periakulam	124	435	..	..	123	..	·6 & 9	16·07	..	Sluice at 5th mile ..	Do.	To be maintained and made into one
137	Do. ..	Chinnakulam										9th branch channel ..		
138	Mangalakudy ..	Mangalakudy Kammoy ..	130	477	..	..	67	..	9	8·75	..	Do.	Good..	To be maintained.
139	Uttangudy ..	Uttangudikulam	353	1,104	..	..	161	..	8·96 & 8·75	20·92	..	Do.	Do. ..	Do.

140	Do. ..	Pulanadikulam or Puvadi tank.	..	..	4	13	10	..	4	..	0·58	Uttangudi tank	Do. ..	To be abandoned.
141	Vandiyur ..	Vandiyur tank	973	3,768	..	..	578	..	10 & 11	92·19	..	9th branch channel, Corambu channel, Vaigai river ..	Do. ..	To be maintained.
142	Do. ..	Mayadan Kammoy or Mathikattinunkulam.	..	..	35	..	60	..	4·00	..	3·48	Vandiyur tank	..	To be abandoned.
143	Mangolam ..	Periakeerani	..	..	43	150	21	..	3, 2·9 & 3	..	0·91	9th branch channel sluice at 28 miles 4 furlongs.	Bad ..	Do.
144	Do. ..	Sinnakeerani	..	..	23	80	9	..	3·5 & 4 12	..	0·54	Do. do.	Do. ..	Do.
145	Do. ..	Thabanerindal	..	..	14	50	..	..	3·95 & 4	..	..	9th branch channel ..	Do. ..	Do.
146	Do. ..	Mariserikulam	..	..	15	38	10	..	4·15 & 3·45	..	0·60	Do. ..	Do. ..	Do.
147	Do. ..	Thukkaikulam or Thurkai kulam.	..	..	50	177	17	..	7·4 & 3·2	..	1·82	Do. ..	Good..	Do.
148	Do. ..	Mudavambukulam ..	..	..	61	215	17	..	1·8, 2·8 & 4 5	..	1·11	Do. ..	Bad ..	Do.
149	Do. ..	Naryirian Kammoy or Elanjinan Kammoy.	..	..	..	..	..	..	..	..	..	Do. ..	Do. ..	Do.
150	Do. ..	Konavaindal	..	..	..	..	..	..	3·03	..	..	....	..	Do.
151	Do. ..	Periakammakulam ..	..	..	23	..	..	..	..	..	..	9th branch channel ..	Bad ..	Do.
152	Do. ..	Paryanthungi	..	..	26	84	22	..	3·8, 5·7 & 3·8	..	1·82	Do. ..	Do. ..	Do.
153	Ilangudi ..	Pudukulam	..	..	53	131	37	..	3·8 & 5·25	..	2·82	New sluice at 3 miles 3 furlongs, 9th branch channel and Chittampatty offtake.	Do. ..	Do.
154	Do. ..	Periyakulam	78	199	..	..	55	..	4·6, 4·4	3·67	..		Do. ..	To be maintained.
155	Do. ..	Chinnakulam							4·3 & 3·5					
156	Arumbanur ..	Kanjirangulam	..	..	42	124	37	..	5·37, 4·7	..	3·22	New sluice at 3 miles 3 furlongs, 9th branch channel.	Good..	To be abandoned.
157	Do. ..	Thottichikulam	..	..	43	152		..	1·, 2·6, 4·4 & 4·9				Do. ..	Do.
158	Thamarapatty.	Kallathikulam	..	..	48	169	19	64	4, 5·6 & 5·2	..	1·60	Kunnathur offtake ..	Do. ..	Do.
159	Do. ..	Puliyadithan on Pulikadithan.	..	..	40	41	31	69	0·89 & 0·63	..	0·28	Sluice at 0 mile 2 furlongs, 9th branch channel.	Bad ..	Do.
160	Do. ..	Upparani	..	..	14	28	..	..	..	..	..	Kunnathur offtake ..	Do. ..	Do.
161	Do. ..	Vaunangulam	..	..	30	..	29	47	2·3, 4·8, 3·30 & 1·73	..	2·05	Do. ..	Good..	Do.
162	Do. ..	Pedariaindal	48	161	..	..	50	31	1, 1 & 3·75	2·72	..	Do. and Chittampatti.	Bad ..	To be maintained.
163	Do. ..	Kalliyankulam	..	..	..	..	20	82	4, 3·2 & 3·8	..	1·21	Do. do.	Good..	To be abandoned.
164	Do. ..	Peekulam	..	..	40	..	8	65	2·5 & 1·2	..	0·31	Do. do.	Bad ..	Do.
165	Do. ..	Pulinimuthan	70	242	..	..	32	..	3·7, 4·8 & 3·4	2·23	..	Kunnathur offtake ..	Do. ..	To be maintained.
166	Do. ..	Navakundoo	..	..	8	28	4	71	3·3	..	0·22	Chittampatti offtake ..	Good..	To be abandoned.
167	Do. ..	Peria Thamarapattykulam.	..	..	56	193	10	..	5·15	..	0·75	Do. ..	Bad ..	Do.
..	Do. ..	Chinna Thamarapattykukulam.	..	..	..	..	7	34	4·51	..	0·48			
168	Do. ..	Anyakulam	..	..	17	60	13	34	3·35	..	0·64	Do. ..	Do. ..	Do.
169	Do. ..	Athikulam	..	..	35	87	18	74	4, 3·25, 4·1 & 3·79	..	1·11	Do. ..	Do. ..	Do.
170	Do. ..	Thottichiaindal	..	..	32	..	9	..	4·11	..	0·53	....	..	Do.
171	Do. ..	Muthukonanaindal ..	6	..	..	..	..	..	3·51	..	..	....	..	Required for drinking purposes.
172	Do. ..	Kodikulam	..	..	45	156	19	10	5·27 & 3·62	..	1·46	Kunnathur offtake ..	Bad ..	To be abandoned.
173	Do. ..	Theruvanodappu	..	..	44	185	8	72	3·49	..	0·44	Do. ..	Do. ..	Do.
174	Do. ..	Periyakadambangudy ..	56	193	..	..	87	..	4·99 & 3·25	2·68	..	Do. ..	Good..	To be maintained.
..	Do. ..	Chinnakadambangudy ..	..	..	..	..	6	..	2, 7·6 & 3·82	..	0·33	....	..	Do.
175	Do. ..	Mochoonuthy	..	..	27	69	14	..	4·48 & 3·1	..	0·91	Kunnathur offtake ..	Good..	Do.
176	Do. ..	Mananalam	..	..	..	..	17	12	3·05	..	0·76	Do. ..	Do. ..	Do.
177	Do. ..	Kattakarupana aindal ..	..	..	6	22	17	..	2·45	..	0·60	Do. ..	Bad ..	Do.
178	Do. ..	Vahanan Kammoy ..	..	..	19	63	17	53	2·25	..	0·57	Do. ..	Do. ..	Do.
179	Do. ..	Sengolam	..	..	4	9	13	4	2·00	..	0·39	Do. ..	Do. ..	Do.
180	Do. ..	Pottaloorani	..	..	8	20	7	65	3·7	..	0·41	Do. ..	Do. ..	Do.

Statement containing proposals for abandoning or maintaining Periyár affected tanks, Madura taluk—*cont.*

Number.	Name of village.	Name of tank.	Tanks to be maintained or left as it is.		Tanks to be abandoned.		Area of water-spread.		Depth of water above sill level to F.T.L.	Approximated capacity of tanks in millions.		Means to irrigate the lands under the tank.	State of bund of tanks.	Remarks.
			Wet ayacut.	Revenue.	Ayacut.	Revenue.	Acres.	Cents.		Maintained or left as it is.	Abandoned.			
			ACS.	RS.	ACS.	RS.								
181	Thamarapatty	Chinnaoorani	..	..	13	30	6	..	2·50	..	0·22	Kunnathur offtake	Bad	To be maintained.
182	Do.	Nelliaindal	80	280	..	..	59	..	2·5, 2·6, 3·7 & 2·7	3·17	..	Do.	Do.	Do.
183	Do.	Chinna Nelliaindal	..	..	26	51	..	..	..	..	..	Do.	Do.	To be abandoned.
184	Do.	Chittangulam	34	119	..	..	29	36	4·7 & 4·5	2·00	..	Do.	Do.	To be left as it is.
185	Do.	Vanathollam	34	119	..	..	15	44	5 & 4·6	1·12	..	9th branch channel	Do.	Do.
186	Rajakumberam.	Periakulam	..	..	..	..	..	..	..	..	..	....	..	To be abandoned.
187	Kottangolam	Kottangolam	..	..	18	..	33	53	4·47	..	2·17	Kunnathur offtake	Bad	Do.
188	Tamarapatty	Adanakurichi or Arunakunchi.	..	..	30	106	24	62	2·75	..	0·98	Do.	Do.	Do.
189	Elangipatty	Elangiaindal	..	..	41	163	28	24	2·98	..	1·22	Do.	Do.	Do.
190	Do.	Sengolam	..	..	53	100	39	10	3·79	..	2·15	Do.	Do.	Do.
191	Nattamungalam.	Sinna Kammoy / Periya do.	147	458	..	..	70	..	2·81 / 6·6	6·70	..	Do.	Good	To be maintained.
192	Kagakkoor	Achankulam	450	1,055	..	..	100	55	7·5 & 3·37	10·94	..	Do.	Do.	Do.
193	Do.	Rajakkur	..	..	200	460	41	50	5·7	..	3·43	Nattumangalam Periya Kammoy.	Bad	To be abandoned.
194	Do.	Kallavottan	..	..	..	..	41	50	2·63	..	1·58	....	..	Do.
195	Do.	Parayankulam	250	575	..	..	104	16	2·7 & 4·7	7·10	..	Achangolam	Bad	To be maintained.
196	Do.	Narivalodai •	..	..	26	..	16	..	..	..	..	Do.	..	To be abandoned.
197	Varichiyur	Varichiyur	555	2,300	..	..	269	..	6·37 & 3·81	24·85	..	Kunnathur and Chunambur offtake.	Bad	To be maintained.
198	Kunnathur	Kunnathur tank	715	3,913	..	..	1,062	..	10	154·20	..	Kunnathur and Corambu channel by river.	Do.	Do.
199	Thirumugur	Thalathamarakulam	172	675	..	..	127	2	8·6 & 8·35	15·88	..	Kunnathur offtake and 9th branch channel.	Do.	Do.
200	Do.	Veerankulam •	..	..	3	..	15	..	..	..	..	Thalathamarakulam	Do.	To be abandoned.
201	Do.	Solamarakulam •	..	..	1	..	..	..	..	..	..	Do.	..	Do.
202	Thindiyur	Thindiyur	124	350	..	..	70	75	3·3, 6·1 & 2·9	6·27	..	Kunnathur offtake and 9th branch channel.	Bad	To be maintained.
203	Do.	Menatchikulam •	..	..	3	..	..	..	..	..	..	Do.	Do.	To be abandoned.
204	Do.	Alathur	183	406	..	..	83	26	3·21 & 3·16	3·88	..	9th branch channel and Thindiyur.	Do.	To be maintained.
205	Kalikuppam	Suragudy	..	..	11	..	34	37	2·87	..	1·43	Do.	Do.	To be abandoned.
206	Do.	Pudu Kammoy	..	..	74	236	79	97	2·8 & 3·8	..	4·41	Do.	Do.	Do.
207	Do.	Kalikappan Peria Kammoy.	99	329	..	..	79	97	3·5 4·7 & 4·9	5·69	..	Do.	Do.	To be maintained.
208	Kalikudy	Periakulam	188	610	..	..	110	..	9·27 & 8·18	14·81	..	Corumbu channel and Elamanur Peria Kammoy.	Do.	Do.
209	Do.	Pudu Kammoy or Rengasamudram.	59	181	..	..	123	..	3	5·35	..	No means of irrigation	..	To be left as it is.
210	Do.	Andiodaikulam	..	..	55	..	19	..	4	..	1·10	Kolikundi Peria Kammoy	Bad	To be abandoned.

211	Vilathur ..	Vilathur	292	1,330	..	..	78	9	5·4,4 & 3·6	6·19	..	Kunnathur offtake	Do. ..	To be maintained.
212	Pollapanayur ..	Pottapanayur	256	703	..	..	88	..	6·2 & 3·68	7·92	..	Vilathur	Do. ..	Do.
213	Elamanur ..	Elamanur Peria Kammoy ..	193	498	..	..	201	..	7·5	21·89	..	Papagudi offtake	Do. ..	Do.
214	Do. ..	Do. Pudu Kammoy ..	..	..	88	78	30	..	5	..	2·18	Do.	Do. ..	To be abandoned.
215	Poolampatty ..	Poolampatty	..	..	11	..	8	..	3·18	..	0·37	Chittampatti	Do. ..	Do.
216	Do. ..	Tanaram or Thariasenakan-golam.	..	..	32	58	14	39	3·9 & 1·7	..	0·82	Do.	Do. ..	Do.
217	Do. ..	Periakumalangolam and Chinnakumalangolam.	..	..	55	136	32	..	3·85	..	1·79	Marani	Do. ..	Do.
218	Do. ..	Sengapenaindal	..	..	8	20	13	34	3·47	..	0·67	Chittampatti offtake ..	Do. ..	Do.
219	Do. ..	Chinnakurmulagiri ..	..	..	12	31	4	..	3·25	..	0·19	Kunnathur offtake ..	Do. ..	Do.
220	Do. ..	Maruchikatty	..	..	..	..	..	..	..	..	..	Chittampatti offtake ..	Do. ..	Do.
221	Do. ..	Periakurumilakudikulam ..	..	..	66	154	19	..	3·85	..	1·06	Kunnathur offtake ..	Do. ..	Do.
222	Vilachikulam ..	Kallikulam	..	..	16	58	10	38	2·48	..	0·37	Marani tank	Do. ..	Do.
223	Do.	Vilachikulam	..	..	66	208	20	92	2·35 & 3·1	..	0·94	Do.	Do. ..	Do.
224	Therukani ..	Therukani Kammoy ..	255	731	..	..	67	47	5·2 & 4·01	5·10	..	Chittampatti	Do. ..	To be maintained.
225	Do. ..	Soman Kammoy or Somasi-kulam.	..	..	86	219	23	33	3·17 & 2·78	..	1·07	Therukani tank	Do. ..	To be abandoned.
226	Do. ..	Kanjirangolam	..	..	68	156	11	98	2·58 & 2·2	..	0·45	Do.	Do. ..	Do.
227	Varachaneri ..	Kuttakulam	..	..	70	211	19	94	2·4 & 3·7	..	1·07	Do.	Do. ..	Do.
228	Do. ..	Sundaranallur	..	..	123	285	24	77	2·4,3·6 & 3·8	..	1·37	Do.	Do. ..	Do.
229	Do. ..	Nedunkulam	..	..	55	152	23	24	3·7 & 2·8	..	1·25	Do.	Do. ..	Do.
230	Do. ..	Summalipuliyankulam ..	60	211	..	..	34	94	4 & 3·86	2·03	..	Do.	Do. ..	To be maintained and made into one tank.
231	Do. ..	Varachaneri Kammoy	66	166	..	..	39	90	8·8 & 6·8	3·94	..	Do·	Do. ..	
			15,494·83	66,043	5,858	17,449	3,189 8,663 11,852	13 49 62	..	1,230·22	236·79			

N.B.—Tanks (15 in number) marked * being small are not shown in the ayacut map.
(2) The ayacut and waterspread of some small tanks are not available at present.
(3) It will be seen that by abandoning the small tanks we lose only ·15 of our total storage.
(4) Out of 11,852 acres tank-bed only 3,189 will be available for cultivation.

29th June 1896.

(Signed) T. W. S. SMYTH,
Executive Engineer on Special Duty.

No. 156 I.

Submitted for the sanction of Government.

(Signed R. R. E. DRAKE-BROCKMAN, Col., R.E.,
31st July 1896. Chief Engineer for Irrigation.

ORDER—No. 710 I., dated 19th August 1896.

The proposals of the Superintending Engineer relative to the retention of some tanks and the abandonment of others under the influence of the Periyár main channel are approved. The proposals, it will be seen, are at present tentative and the arguments for their adoption forwarded by the Superintending Engineer appear to be both cautious and sound. The experience of two or more seasons only can give a cue to further action in this direction.

(True Extract.)

(Signed) R. R. E. DRAKE-BROCKMAN, Colonel, R.E,
Secretary to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
,, Superintending Engineer, VI Circle, with two enclosures.
,, Examiner, Public Works Accounts.
,, Revenue Department.

Exd. T. K. Narayana Aiyangar.

25 P

-10-31 [illegible]
1-12-36 III
3-11-37 III ✓